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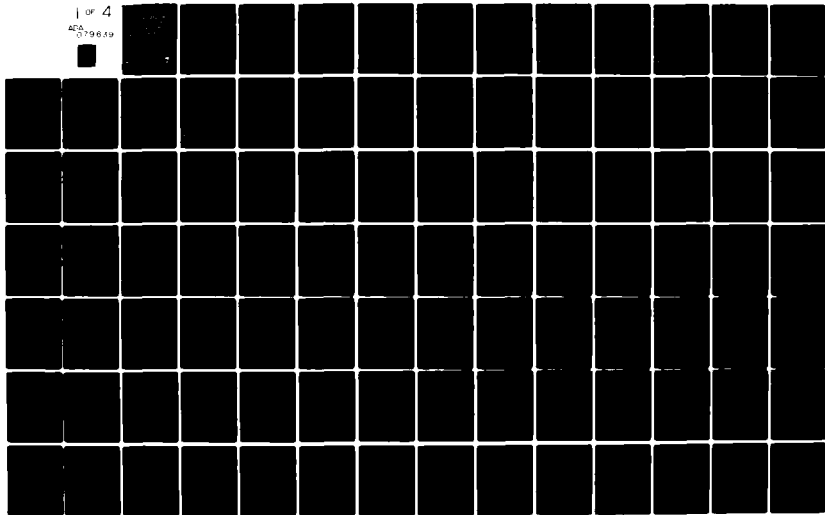
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LAND MANAGEMENT ALTERNATIVES IN THE LAKE ERIE DRAINAGE BASIN.(U)
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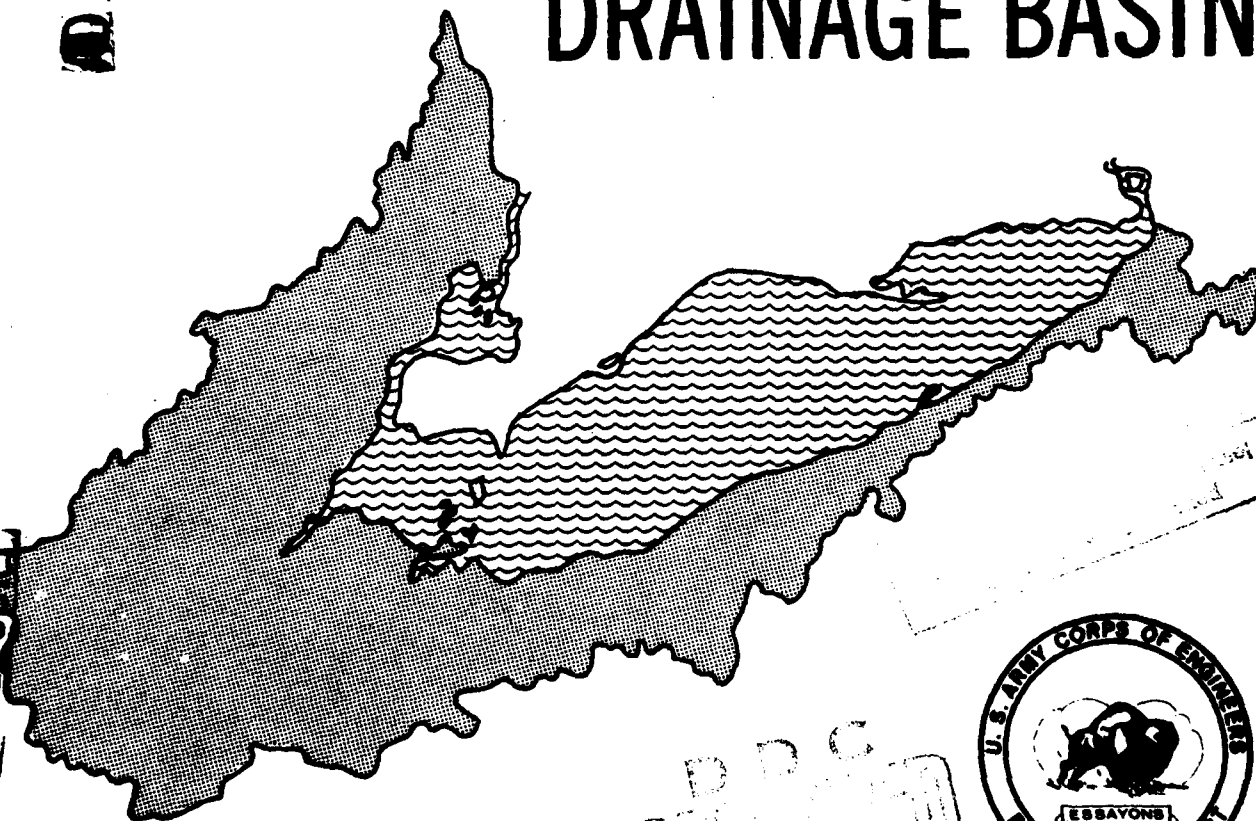
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TECHNICAL REPORT SERIES

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LAND MANAGEMENT ALTERNATIVES IN THE LAKE ERIE DRAINAGE BASIN

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PREPARED FOR THE
LAKE ERIE WASTEWATER
MANAGEMENT STUDY
U.S. ARMY ENGINEER DISTRICT, BUFFALO

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| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Previous studies have shown that diffuse sources of phosphorus must be managed if the trophic status of Lake Erie is to be reduced (LEWMS, 1975, 1979). Agriculture, in particular, cropland, is a predominant land use and contributor of diffuse source sediment and associated phosphorus to Lake Erie. This paper examines the values of potential gross erosion for six land management alternatives with special interest in present cropping practices, popular and | | |

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common practices, and other alternatives which show promise for reducing sediment and phosphorus inputs.

This report ~~will~~² first describe the land management alternatives under consideration followed by the method employed in computing values of potential gross erosion. Finally, the potential gross erosion values of several watersheds will be examined.

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LAND MANAGEMENT ALTERNATIVES
IN THE LAKE ERIE DRAINAGE BASIN

March 1979

Lake Erie Wastewater Management Study
U. S. Army Engineer District, Buffalo
1776 Niagara Street
Buffalo, NY 14207

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LIST OF POTENTIAL CROSS EROSION ANALYSES

Major Watersheds

| <u>Sampling Station</u> | <u>Map Code</u> | <u>County</u> | <u>Page</u> |
|---|-----------------|---------------|-------------|
| Black River at Fargo, MI | 2 | Sanilac, MI | 13 |
| | | Lapeer, MI | 14 |
| | | St. Clair, MI | 15 |
| | | All in Basin | 16 |
| Mill Creek at Avoca, MI | 5 | Sanilac, MI | 17 |
| | | Lapeer, MI | 18 |
| | | St. Clair, MI | 19 |
| | | All in Basin | 20 |
| Belle River at Memphis, MI | 1 | Lapeer, MI | 21 |
| | | St. Clair, MI | 22 |
| | | Macomb, MI | 23 |
| | | All in Basin | 24 |
| Clinton River at Mt. Clemens, MI | 3 | Lapeer, MI | 25 |
| | | St. Clair, MI | 26 |
| | | Oakland, MI | 27 |
| | | Macomb, MI | 28 |
| | | All in Basin | 29 |
| Sashabaw Creek at Drayton, MI | 8 | Oakland, MI* | 30 |
| Rouge River at W. Jefferson Bridge, MI 7 | | Oakland, MI | 31 |
| | | Washtenaw, MI | 32 |
| | | Wayne, MI | 33 |
| | | All in Basin | 34 |

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (cont'd)

| <u>Sampling Station</u> | <u>Map Code</u> | <u>County</u> | <u>Page</u> |
|--|-----------------|----------------|-------------|
| Huron River at S. Metro Parkway, MI | 4 | Ingham, MI | 35 |
| | | Livingston, MI | 36 |
| | | Oakland, MI | 37 |
| | | Washtenaw, MI | 38 |
| | | Wayne, MI | 39 |
| | | All in Basin | 40 |
| Raisin River at Monroe, MI | 6 | Monroe, MI | 41 |
| | | Jackson, MI | 42 |
| | | Washtenaw, MI | 43 |
| | | Lenawee, MI | 44 |
| | | Fulton, OH | 45 |
| | | All in Basin | 46 |
| Maumee River at Waterville, OH | 9 | Seneca, OH | 47 |
| | | Wood, OH | 48 |
| | | Lucas, OH | 49 |
| | | Hancock, OH | 50 |
| | | Wyandot, OH | 51 |
| | | Hardin, OH | 52 |
| | | Henry, OH | 53 |
| | | Hillsdale, MI | 54 |
| | | Lenawee, MI | 55 |
| | | Steuben, IN | 56 |
| | | Williams, OH | 57 |
| | | Fulton, OH | 58 |
| | | Nobel, IN | 59 |
| | | Dekalb, IN | 60 |
| | | Defiance, OH | 61 |
| | | Allen, IN | 62 |
| | | Paulding, OH | 63 |
| | | Putnam, OH | 64 |
| | | Wells, IN | 65 |
| | | Adams, IN | 66 |
| | | Van Wert, OH | 67 |
| | | Allen, OH | 68 |
| | | Mercer, OH | 69 |

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

| <u>Sampling Station</u> | <u>Map Code</u> | <u>County</u> | <u>Page</u> |
|---|-----------------|---------------|-------------|
| Maumee River at Waterville, OH | | Auglaize, OH | 70 |
| | | Shelby, OH | 71 |
| | | All in Basin | 72 |
| | | | |
| Portage River at Woodville, OH | 10 | Seneca, OH | 73 |
| | | Sandusky, OH | 74 |
| | | Wood, OH | 75 |
| | | Hancock, OH | 76 |
| | | All in Basin | 77 |
| | | | |
| Sandusky River at Fremont, OH | 12 | Crawford, OH | 78 |
| | | Seneca, OH | 79 |
| | | Huron, OH | 80 |
| | | Sandusky, OH | 81 |
| | | Hancock, OH | 82 |
| | | Wyandot, OH | 83 |
| | | Hardin, OH | 84 |
| | | Marion, OH | 85 |
| | | Richland, OH | 86 |
| | | All in Basin | 87 |
| Sandusky River at Mexico, OH | 13 | Crawford, OH | 88 |
| | | Seneca, OH | 89 |
| | | Wyandot, OH | 90 |
| | | Hardin, OH | 91 |
| | | Marion, OH | 92 |
| | | Richland, OH | 93 |
| | | All in Basin | 94 |
| | | | |
| Sandusky River at Upper Sandusky, OH | 14 | Crawford, OH | 95 |
| | | Wyandot, OH | 96 |
| | | Marion, OH | 97 |
| | | Richland, OH | 98 |
| | | All in Basin | 99 |
| | | | |

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

| <u>Sampling Station</u> | <u>Map Code</u> | <u>County</u> | <u>Page</u> |
|--|-----------------|---------------|-------------|
| Sandusky River at Bucyrus, OH | 15 | Crawford, OH | 100 |
| | | Richland, OH | 101 |
| | | All in Basin | 102 |
| Tymochtee Creek at Crawford, OH | 16 | Wyandot, OH | 103 |
| | | Hardin, OH | 104 |
| | | Marion, OH | 105 |
| | | All in Basin | 106 |
| Broken Sword Creek at Nevada, OH | 18 | Crawford, OH | 107 |
| | | Wyandot, OH | 108 |
| | | All in Basin | 109 |
| W. Br. Wolf Creek at Bettsville, OH | 19 | Seneca, OH | 110 |
| | | Hancock, OH | 111 |
| | | All in Basin | 112 |
| E. Br. Wolf Creek near Bettsville, OH | 20 | Seneca, OH* | 113 |
| Honey Creek at Mouth | | Crawford, OH | 114 |
| | | Seneca, OH | 115 |
| | | Huron, OH | 116 |
| | | Wyandot, OH | 117 |
| | | All in Basin | 118 |
| Honey Creek at Rt. 231 | 22 | Crawford, OH | 119 |
| | | Seneca, OH | 120 |
| | | Huron, OH | 121 |
| | | Wyandot, OH | 122 |
| | | All in Basin | 123 |
| Honey Creek at Melmore, OH | 17 | Crawford, OH | 124 |
| | | Seneca, OH | 125 |
| | | Huron, OH | 126 |
| | | All in Basin | 127 |

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

| <u>Sampling Station</u> | <u>Map Code</u> | <u>County</u> | <u>Page</u> |
|--|-----------------|---------------|-------------|
| Honey Creek upstream from Silver Creek | 24 | Crawford, OH | 128 |
| | | Seneca, OH | 129 |
| | | Huron, OH | 130 |
| | | All in Basin | 131 |
| Honey Creek upstream from Aichholz Ditch | 29 | Crawford, OH | 132 |
| | | Seneca, OH | 133 |
| | | Huron, OH | 134 |
| | | All in Basin | 135 |
| Honey Creek at Rt. 4 near Attica, OH | 30 | Crawford, OH | 136 |
| | | Seneca, OH | 137 |
| | | Huron, OH | 138 |
| | | All in Basin | 139 |
| Honey Creek at Weis Road | 32 | Crawford, OH | 140 |
| | | Seneca, OH | 141 |
| | | Huron, OH | 142 |
| | | All in Basin | 143 |
| Honey Creek Tributary at Weis Road | 31 | Crawford, OH | 144 |
| | | Huron, OH | 145 |
| | | All in Basin | 146 |
| Honey Creek at Rt. 103 near Waynesburg, OH | 35 | Crawford, OH* | 147 |
| Honey Creek Tributary below Mohawk Lake | 21 | Seneca, OH* | 148 |
| Honey Creek Tributary- Buckeye Creek at Rt. 67 | 23 | Crawford, OH | 149 |
| | | Seneca, OH | 150 |
| | | Wyandot, OH | 151 |
| | | All in Basin | 152 |
| Honey Creek Tributary- Silver Creek at Mouth | 25 | Crawford, OH | 153 |
| | | Seneca, OH | 154 |
| | | All in Basin | 155 |

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

| <u>Sampling Station</u> | <u>Map Code</u> | <u>County</u> | <u>Page</u> |
|--|-----------------|---|--|
| Honey Creek Tributary- Silver Creek Downs- stream from Marsh | 26 | Crawford, OH Seneca, OH All in Basin | 156 157 158 |
| Honey Creek Tributary- Silver Creek Upstream from Marsh | 27 | Crawford, OH Seneca, OH All in Basin | 159 160 161 |
| Honey Creek Tributary- Aichholz Ditch at Co. Rd. 49 | 28 | Crawford, OH Seneca, OH All in Basin | 162 163 164 |
| Honey Creek Tributary- Broken Knife Creek at Co. Line Rd. | 33 | Crawford, OH Seneca, OH Huron, OH All in Basin | 165 166 167 168 |
| Honey Creek Tributary at Scott Road | 34 | Crawford, OH* | 169 |
| Honey Creek Tributary- Ackerman Ditch | 66 | Crawford, OH* | 170 |
| Rock Creek East at Co. Rd. 16 | 72 | Seneca, OH* | 171 |
| Rock Creek West at Co. Rd. 16 | 71 | Seneca, OH* | 172 |
| Huron River at Milan, OH | 11 | Crawford, OH Seneca, OH Huron, OH Erie, OH Richland, OH All in Basin | 173 174 175 176 177 178 |

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

| <u>Sampling Station</u> | <u>Map Code</u> | <u>County</u> | <u>Page</u> |
|---|-----------------|---------------|-------------|
| Huron River Tributary- Norwalk Creek near Norwalk, OH | 56 | Huron, OH* | 179 |
| Vermilion River near Vermilion, OH | 36 | Huron, OH | 180 |
| | | Erie, OH | 181 |
| | | Richland, OH | 182 |
| | | Ashland, OH | 183 |
| | | All in Basin | 184 |
| Black River at Elyria, OH | 37 | Huron, OH | 185 |
| | | Ashland, OH | 186 |
| | | Medina, OH | 187 |
| | | Cuyahoga, OH | 188 |
| | | Lorain, OH | 189 |
| | | All in Basin | 190 |
| Plum Creek at Oberlin, OH | 54 | Lorain, OH* | 191 |
| Neff Run at Litchfield | 55 | Medina, OH | 192 |
| | | Lorain, OH | 193 |
| | | All in Basin | 194 |
| Rocky River at Berea, OH | 38 | Medina, OH | 195 |
| | | Cuyahoga, OH | 196 |
| | | Summit, OH | 197 |
| | | Lorain, OH | 198 |
| | | All in Basin | 199 |
| Cuyahoga River at Independence, OH | 39 | Medina, OH | 200 |
| | | Cuyahoga, OH | 201 |
| | | Summit, OH | 202 |
| | | Geauga, OH | 203 |
| | | Portage, OH | 204 |
| | | Stark, OH | 205 |
| | | All in Basin | 206 |

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

| <u>Sampling Station</u> | <u>Map Code</u> | <u>County</u> | <u>Page</u> |
|---------------------------------------|-----------------|---------------|-------------|
| Cuyahoga River at Old Portage, OH | 58 | Summit, OH | 207 |
| | | Geauga, OH | 208 |
| | | Portage, OH | 209 |
| | | All in Basin | 210 |
| Cuyahoga River at Peninsula, OH | 62 | Medina, OH | 211 |
| | | Cuyahoga, OH | 212 |
| | | Summit, OH | 213 |
| | | Geauga, OH | 214 |
| | | Portage, OH | 215 |
| | | All in Basin | 216 |
| Cuyahoga River at Hiram Rapids, OH | 69 | Geauga, OH | 217 |
| | | Portage, OH | 218 |
| | | All in Basin | 219 |
| Little Cuyahoga River at Akron, OH | 68 | Summit, OH | 220 |
| | | Portage, OH | 221 |
| | | All in Basin | 222 |
| Mud Brook at Akron, OH | 59 | Summit, OH* | 223 |
| Yellow Creek at Botzum, OH | 60 | Medina, OH | 224 |
| | | Summit, OH | 225 |
| | | All in Basin | 226 |
| Furnace Run at Everett, OH | 61 | Cuyahoga, OH | 227 |
| | | Summit, OH | 228 |
| | | All in Basin | 229 |
| Brandywine Creek at Jaite, OH | 63 | Cuyahoga, OH | 230 |
| | | Summit, OH | 231 |
| | | All in Basin | 232 |
| Chippewa Creek at Brecksville, OH | 64 | Cuyahoga, OH* | 233 |

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

| <u>Sampling Station</u> | <u>Map Code</u> | <u>County</u> | <u>Page</u> |
|-------------------------------------|-----------------|----------------|-------------|
| Tinker's Creek at Bedford, OH | 65 | Cuyahoga, OH | 234 |
| | | Summit, OH | 235 |
| | | Geauga, OH | 236 |
| | | Portage, OH | 237 |
| | | All in Basin | 238 |
| Big Creek at Cleveland, OH | 53 | Cuyahoga, OH* | 239 |
| Euclid Creek at Euclid, OH | 70 | Cuyahoga, OH | 240 |
| | | Lake, OH | 241 |
| | | All in Basin | 242 |
| Chagrin River at Willoughby, OH | 40 | Cuyahoga, OH | 243 |
| | | Lake, OH | 244 |
| | | Geauga, OH | 245 |
| | | Portage, OH | 246 |
| | | All in Basin | 247 |
| Grand River at Painesville, OH | 41 | Lake, OH | 248 |
| | | Geauga, OH | 249 |
| | | Portage, OH | 250 |
| | | Ashtabula, OH | 251 |
| | | All in Basin | 252 |
| Ashtabula River at Ashtabula, OH | 42 | Ashtabula, OH | 253 |
| | | Erie, OH | 254 |
| | | Crawford, PA | 255 |
| | | All in Basin | 256 |
| Hubbard Run at Ashtabula, OH | 50 | Ashtabula, OH* | 257 |
| Conneaut Creek at Conneaut, OH | 43 | Ashtabula, OH | 258 |
| | | Erie PA | 259 |
| | | Crawford, PA | 260 |
| | | All in Basin | 261 |
| *Basin Total | | | |

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

| <u>Sampling Station</u> | <u>Map Code</u> | <u>County</u> | <u>Page</u> |
|--|-----------------|------------------|-------------|
| Raccoon Creek near W. Springfield, PA | 48 | Erie, PA* | 262 |
| Mill Creek near Erie, PA | 49 | Erie, PA* | 263 |
| Cattaraugus Creek at Gowanda, NY | 44 | Erie, NY | 264 |
| | | Cattaraugus, NY | 265 |
| | | Wyoming, NY | 266 |
| | | Allegany, NY | 267 |
| | | All in Basin | 268 |
| S. Br. Cattaraugus Creek at Otto, NY | 45 | Cattaraugus, NY* | 269 |
| Delaware Creek near Angola, NY | 46 | Erie, NY* | 270 |
| Eighteen Mile Creek at N. Boston, NY | 47 | Erie, NY* | 271 |

Direct Drainage Areas

| <u>County</u> | <u>Page</u> |
|---------------|-------------|
| St. Clair, MI | 273 |
| Macomb, MI | 274 |
| Oakland, MI | 275 |
| Wayne, MI | 276 |
| Washtenaw, MI | 277 |
| Monroe, MI | 278 |
| Lenawee, MI | 279 |
| Lucas, OH | 280 |
| Fulton, OH | 281 |
| Henry, OH | 282 |
| Wood, OH | 283 |
| Ottawa, OH | 284 |
| Sandusky, OH | 285 |
| Seneca, OH | 286 |
| Erie, OH | 287 |
| Huron, OH | 288 |

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

Direct Drainage Areas

| <u>County</u> | <u>Page</u> |
|---------------------------------------|-------------|
| Lorain, OH | 289 |
| Cuyahoga, OH | 290 |
| Lake, OH | 291 |
| Ashtabula, OH | 292 |
| Erie, PA | 293 |
| Crawford, PA | 294 |
| Chautauqua, NY | 295 |
| Cattaraugus, NY | 296 |
| Erie, NY | 297 |
| All in Basin (Direct Drainage Totals) | 298 |
| Lake Erie Drainage Basin Summary | 300 |

ABSTRACT

The Universal Soil Loss Equation was used to compute values of potential gross erosion associated with six different land management alternatives in the U. S. portion of the Lake Erie Drainage Basin. The six cropland scenarios are:

1. Existing conditions
2. Spring plowing
3. Fall plowing
4. Winter cover crop
5. Maximum reduction tillage and
6. Reduced tillage-chisel plowing

The Appendix contains the potential gross erosion values for each major watershed in the U. S. portion of the Lake Erie Drainage Basin. Three of these watersheds, Maumee River, Honey Creek, and Cattaraugus Creek are further discussed within the text as examples of the kinds of observations which may be drawn from the scenario results.

Of the six land management alternatives listed above, maximum reduction tillage and reduced tillage-chisel plowing are most effective in reducing potential gross erosion. Spring plowing and winter cover crop offer little reduction while the fall plowing scenario actually increases potential gross erosion over the present existing conditions.

INTRODUCTION

Previous studies have shown that diffuse sources of phosphorus must be managed if the trophic status of Lake Erie is to be reduced (LEWMS, 1975, 1979). Agriculture, in particular, cropland, is a predominant land use and contributor of diffuse source sediment and associated phosphorus to Lake Erie. This paper examines the values of potential gross erosion for six land management alternatives with special interest in present cropping practices, popular and common practices, and other alternatives which show promise for reducing sediment and phosphorus inputs.

This report will first describe the land management alternatives under consideration followed by the method employed in computing values of potential gross erosion. Finally, the potential gross erosion values of several watersheds will be examined.

LAND MANAGEMENT ALTERNATIVES

The following land management scenarios have been chosen for comparison of potential gross erosion values;

1. Existing practices
2. Spring plowing
3. Fall plowing
4. Winter cover crop
5. Maximum reduction tillage
6. Reduced tillage-chisel plowing

Existing Practices

Potential gross erosion was computed for cropland under present farming practices to show whether other alternatives would result in increased or decreased erosion values. Existing farming practices include various combinations of the alternatives listed above, however, fall moldboard plowing predominates.

Spring Plowing

The spring plowing scenario assumes all cropland would be moldboard plowed in the spring. Cropland which presently is not plowed in the spring (e.g., fall plowed, no-till and reduced tillage) would undergo spring plowing.

Fall Plowing

Under this scenario all cropland would be moldboard plowed after fall harvest. As stated above, most cropland is presently fall plowed. This alternative proposes to change all spring plowing, winter cover crop, no-till, and reduced tillage practices now occurring in the Lake Erie Drainage Basin to fall moldboard plowing. Fall moldboard plowing can have a tremendous influence on soil losses since mineral soil is exposed to the erosive forces of raindrop impact and surface runoff. Some of the highest values of potential gross erosion can be expected with this common farming practice.

Winter Cover Crop

Often proposed as an erosion control measure, winter cover crops are initiated after harvest to provide protection from snowmelt runoff and early spring rains. This alternative proposes establishment of winter cover crops with other present farming methods remaining unchanged.

Maximum Reduction Tillage

Maximum reduction tillage refers to that tillage practice which most effectively reduces erosion while also causing little or no reduction in net farm income. No-till is the most effective erosion control tillage practice included in the maximum reduction tillage scenario. As will be discussed later, no-till produces excellent crop yields on soils with good drainage but should not be used on poorly drained soils. Reduced tillage-chisel plowing is not quite as effective as no-till for reducing erosion but it is more profitable on somewhat poorly drained soils. For soils which are very poorly drained, conventional moldboard plowing is recommended. In conclusion, under the maximum reduced tillage alternative, no-till, reduced tillage-chisel plowing, or moldboard plowing is prescribed depending on soil drainage characteristics. The practice which provides the greatest erosion control with the least negative profit impact is prescribed.

Reduced Tillage-Chisel Plowing

The reduced tillage-chisel plowing scenario is similar to the maximum reduction tillage scenario except that application of no-till to suitable soils is eliminated. Reduced tillage-chisel plowing is the crop management practice applied to those soils which exhibit suitable drainage and crop response. Conventional moldboard plowing is still assumed for poorly drained soils which do not respond well to reduced tillage-chisel plowing.

METHODS

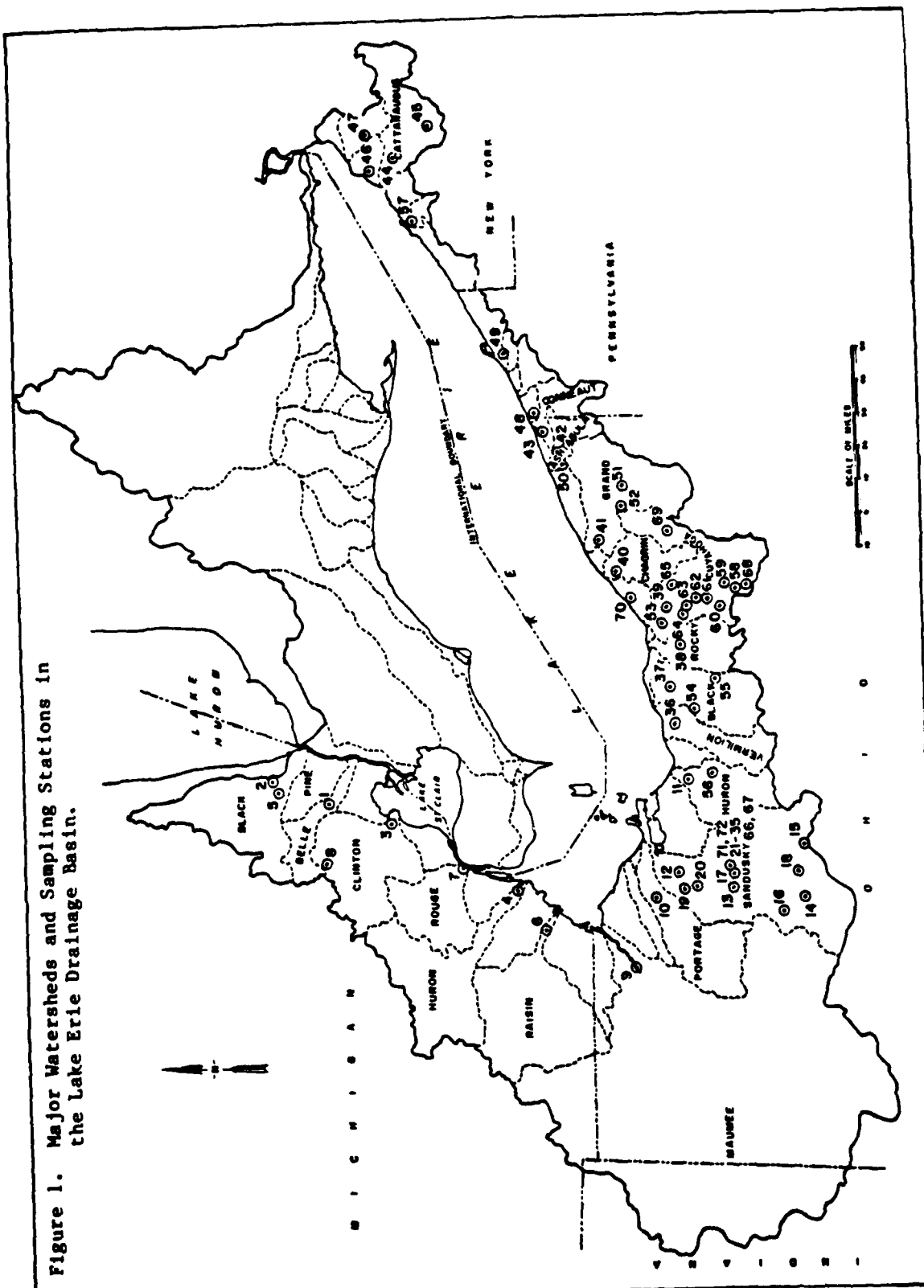
The Lake Erie Drainage Basin was partitioned into major watersheds and direct drainage areas. The major watersheds are described in Table 1 and Figure 1. Direct drainage areas are those which are downstream of a major watershed or between major watersheds. Potential gross erosion for major watersheds and direct drainage areas was computed on a county basis with county, watershed, and Lake Erie Drainage Basin totals displayed in the appendix. Before describing the results of applying the USLE to the previously stated land management alternatives the method of analysis will be discussed.

Table 1. Major Watersheds in U.S. Lake Erie Drainage Basin

| Stream | Station Number | Sampling Site | Drainage Area (sq. mi.) | Map Code | No. of Samples Analyzed |
|--------------------|----------------|-----------------------------|----------------------------|----------|----------------------------|
| Belle | 04160600 (1) | Murphis, MI | 151 | 1 | 60 |
| Black | 04159500 (1) | Fargo, MI | 480 | 2 | 61 |
| Clinton | 04163500 (1) | Mt. Clemens, MI | 734 | 3 | 63 |
| Buron | 821114 (2) | S. Metropolitan Hwy., MI | 849 | 4 | 50 |
| Mill Creek | 04159900 (1) | Avoca, MI | 169 | 5 | 65 |
| Balsin | 04176500 (1) | Monroe, MI | 1,042 | 6 | 61 |
| Rouge | 820070 (2) | W. Jefferson Bridge, MI | 467 | 7 | 57 |
| Sashabaw Creek | 04160800 (1) | Drayton Plains, MI | 20.9 | 8 | 62 |
| Maumee | 04163500 (1) | Waterville, OH | 6,330 | 9 | 1,411 |
| Portage | 04195500 (1) | Woodville, OH | 428 | 10 | 1,292 |
| Buron | 04199000 (1) | Milan, OH | 371 | 11 | 1,543 |
| Sandusky | 04198000 (1) | Freemont, OH | 1,251 | 12 | 1,283 |
| Sandusky | 04197000 (1) | Mexico, OH | 774 | 13 | 908 |
| Sandusky | 04196500 (1) | Upper Sandusky, OH | 298 | 14 | 1,139 |
| Sandusky | 04196000 (1) | Bucyrus, OH | 88.8 | 15 | 1,180 |
| Tymochtee Creek | 04196800 (1) | Crawford, OH | 229 | 16 | 973 |
| Money Creek | 04197100 (1) | Malmora, OH | 149 | 17 | 1,194 |
| Broken Sword | 04196200 (1) | Nevada, OH | 83.8 | 18 | 988 |
| Wolf Creek | | | | | |
| West Branch | 04197300 (1) | Bettsville, OH | 66.2 | 19 | 930 |
| Wolf Creek | | | | | |
| East Branch | 04197450 (1) | Bettsville, OH | 82.3 | 20 | 929 |
| Mohawk Lake | A (3) | Tributary below Mohawk Lake | 5.3 | 21 | 22 |
| Money Creek | 1 (3) | At Route 231 | 171 | 22 | 43 |
| Suckeye Creek | E (3) | At Route 67 | 5.6 | 23 | 34 |
| Money Creek | 3 (3) | Upstr. from Silver Creek | 121.6 | 24 | 34 |
| Silver Creek | 4 (3) | Confluence with Money Cr. | 24.4 | 25 | 35 |
| Silver Creek | M (3) | Downstream from Marsh | 16.4 | 26 | 43 |
| Silver Creek | N (3) | Upstr. from Marsh | 12.1 | 27 | 43 |
| Aichholz Ditch | 6 (3) | Money Creek, County Rd. 49 | 16.3 | 28 | 32 |
| Money Creek | 5 (3) | Upstr. from Aichholz Ditch | 95.6 | 29 | 42 |
| Money Creek | 7 (3) | Attica, Route 4 | 75.6 | 30 | 41 |
| Money Creek | F (3) | Weis Road | 10.1 | 31 | 33 |
| Money Creek | 8 (3) | Upstr. from Brokenknife | 26.8 | 32 | 31 |
| Brokenknife Cr. | D or 9 (3) | County Line Road | 20.5 | 33 | 35 |
| Trib. Money Cr. | B (3) | R.R. North at Scott Rd. | 3.4 | 34 | 29 |
| Money Creek | 10 (3) | Rt. 103 | 15.7 | 35 | 34 |
| Vermilion | 04199500 (1) | Vermilion, OH | 262 | 36 | 106 |
| Black River | 04200500 (1) | Elyria, OH | 396 | 37 | 101 |
| Rocky | 04201500 (1) | Berea, OH | 267 | 38 | 60 |
| Cuyahoga | 04208000 (1) | Independence, OH | 707 | 39 | 441 |
| Chagrin | 04209000 (1) | Willoughby, OH | 246 | 40 | 101 |
| Grand | 04212200 (1) | Painesville, OH | 701 | 41 | 63 |
| Ashtabula River | 04212300 (1) | Ashtabula, OH | 121 | 42 | 23 |
| Conneaut Creek | 04213000 (1) | Conneaut, OH | 175 | 43 | 23 |
| Cattaraugus Creek | 04213500 (1) | Gowanda, NY | 432 | 44 | 142 |
| S. Br. Cattaraugus | 04213490 (1) | Octo, NY | 25.60 | 45 | 77 |
| Delaware Creek | 04214040 (1) | Angola, NY | 8.15 | 46 | 77 |
| 18 Mile Creek | 04214200 (1) | W. Boston, NY | 37.20 | 47 | 77 |
| Raccoon Creek | 04213040 (1) | W. Springfield, PA | 2.53 | 48 | 54 |
| Mill Creek | 04213200 (1) | Erie, PA | 9.16 | 49 | 53 |
| Hubbard Run | 04212600 (1) | Ashtabula, OH | .88 | 50 | 38 |
| Hockins Creek | 04210100 (1) | Hartsgrove, OH | 5.42 | 51 | 40 |
| Montville Ditch | 04210090 (1) | Montville, OH | .29 | 52 | 40 |
| Big Creek | 04208502 (1) | Cleveland, OH | 35.3 | 53 | 60 |
| Plum Creek | 04200100 (1) | Oberlin, OH | 4.83 | 54 | 64 |
| Huff Run | 04199800 (1) | Litchfield, OH | .76 | 55 | 60 |
| Norwalk Creek | 04198100 (1) | Norwalk, OH | 4.92 | 56 | 60 |
| Canadaway | | Fredonia, NY | 34.9 | 57 | 36 |
| Cuyahoga River | 04206000 (1) | Old Portage, OH | 404 | 58 | 197 |
| Mad Brook | 04206050 (1) | Akron, OH | 29.3 | 59 | 162 |
| Yellow Creek | 04206220 (1) | Botsun, OH | 30.7 | 60 | 177 |
| Furnace Run | 04206370 (1) | Everett, OH | 17.7 | 61 | 162 |
| Cuyahoga River | 04206400 (1) | Peninsula, OH | 494 | 62 | 353 |
| Brandywine Creek | 04206420 (1) | Jaite, OH | 27.2 | 63 | 176 |
| Chippewa Creek | 04206450 (1) | Brecksville, OH | 17.7 | 64 | 154 |
| Tinkers Creek | 04207200 (1) | Bedford, OH | 83.9 | 65 | 313 |
| Ackerman Ditch | C (3) | Ackerman Ditch | 4.4 | 66 | 32 |
| Mohawk Lake | AA (3) | Tributary above Mohawk | 3.72 | 67 | 34 |
| Little Cuyahoga R. | 04205700 (1) | Akron, OH | 59.2 | 68 | 24 |
| Cuyahoga River | 04202000 (1) | River Rapids, OH | 151 | 69 | 39 |
| Euclid Creek | 04208690 (1) | Euclid, OH | 22.6 | 70 | 189 |
| Rock Creek West | BNW (4) | County Rd 16 | 13.6 | 71 | 34 |
| Rock Creek East | RCE (4) | County Rd 16 | 7.0 | 72 | 33 |

- (1) U.S. Geological Survey Station Code
(2) Michigan Department of Natural Resources Code
(3) Corps of Engineers Money Creek Watershed Code
(4) Corps of Engineers Code

Figure 1. Major Watersheds and Sampling Stations in the Lake Erie Drainage Basin.



Universal Soil Loss Equation

The Universal Soil Loss Equation (USLE), is an empirical approach for computing potential gross erosion using climatic, soil, topographic, crop management, and conservation practice data (Smith and Wischmeier, 1957, 1962). The USLE is:

$$A = (R) \times (K) \times (LS) \times (C) \times (P)$$

where A = average annual soil loss (tons/acre/yr)
R = erosive potential rainfall factor
K = soil erodibility factor
LS = topographic slope and slope length factor
C = crop management factor
P = conservation practice factor

The crop management factor C, is the only parameter which changes as different land management alternatives are applied to Lake Erie Drainage Basin cropland. Mentioned previously, application of land management alternatives such as no-till and reduced tillage-chisel plowing are dependent upon soil drainage properties. Therefore, before a C factor can be assigned to an area under consideration for maximum reduced tillage, no-till, or reduced tillage-chisel plowing, the drainage characteristics of the soil must be known. For this reason, soil management groups were established for cropland soils which exhibit similar drainage characteristics and similar response to no-till and reduced tillage-chisel plowing.

Soil Management Groups (SMGs)

Ten SMGs were used in the analysis of land management alternatives. The SMGs are adapted from Triplett et al and listed below:

Tillage group 1 - Soils in this group have yield response to no tillage equal to or greater than conventional tillage. Soils are moderately well, well, and excessively well drained. They have silt loam, loam, sandy loam, or loamy fine sand surface texture. They are low in organic matter.

Tillage group 2 - These soils should have yield responses to no tillage nearly equal to conventional tillage if soil drainage has been improved. These soils are somewhat poorly drained in their natural state. They have a silt loam, loam, sandy loam, or loamy fine sand surface texture. They are low in organic matter.

Tillage group 3 - These soils yield less with no tillage than conventional tillage. They are somewhat poorly to very poorly drained. Tile does not provide adequate drainage. Surface texture is loam,

silt loam, or silty clay loam. Most of these soils are low in organic matter.

Tillage group 4 - Soils in this group may yield less with no tillage than conventional tillage. They are very poorly drained. They have surface textures of silty clay loam and clay loam. They contain relatively high amounts of organic matter in the surface.

Tillage group 5 - These are organic soils, alluvial soils, and certain fine textured soils. These soils do not respond well to no tillage.

Soil Management groups 6-9 have the same subsurface characteristics as SMGs 2-5 respectively; however, the surface texture of SMGs 6-9 are silty clay or clay. The differentiation of SMGs 2-5 and 6-9 by surface texture was necessary to examine potential gross erosion of surface silty clays and clay which may contribute greater quantities of sediment phosphorus to receiving waters. SMG 10 includes all soils located on slopes equal to or greater than 18 percent.

Under the maximum reduction scenario, no-till is applied to cropland soils in SMGs 1, 2, 6, and 10. Reduced tillage-chisel plowing is assumed for SMGs 4 and 8 while conventional moldboard plowing is used on SMGs 3, 5, 7, and 9.

Under the reduced tillage-chisel plowing scenario, SMGs 1, 2, 4, 6, 8, and 10 undergo chisel plowing. Again, conventional tillage is applied to SMGs 3, 5, 7, and 9.

RESULTS - SELECTED WATERSHEDS

The Maumee River, Honey Creek, and Cattaraugus Creek Watersheds have been chosen for discussion of potential gross erosion values. All three of these watersheds have a special significance in the United States portion of the Lake Erie Drainage Basin. The Maumee River is the largest contributor of diffuse source phosphorus to the highly eutrophic Western Basin of Lake Erie. Honey Creek, on the other hand, is a demonstration watershed for implementation of no-till and reduced tillage crop management scenarios; note that existing conditions discussed in this report do not include recently established no-till and reduced tillage cropland. Finally, Cattaraugus Creek Watershed was selected for discussion because it contains some of the greatest slopes in the Lake Erie Drainage Basin - a factor which has a large influence on potential gross erosion.

Maumee River Watershed

Potential gross erosion values for the Maumee River Watershed are shown on p. 72 of the Appendix. Total potential gross erosion (PGE) of cropland, grassland, and woodland in the Maumee River Basin is 9,128,000 tons/year on 2,993,000 acres (1,200,000 hectares), 3.05 tons/ac/yr (6.8 metric tonnes/hectare/yr). At least 67 percent of the cropland experiences soil erosion at a rate less than T, the tolerable soil loss rate, and only 1.4 tons/ac/yr (3.14 tonnes/hectare/yr). The remaining cropland is eroding at an average rate of 7.9 tons/ac/yr (17.7 tonnes/hectare/yr). By bringing the cropland which currently exceeds T to within T the average potential gross erosion rate could be reduced 44.2 percent to 1.7 tons/ac/yr (3.8 tonnes/hectare/yr) for the entire basin.

The variation of potential gross erosion among soil groups is particularly interesting. It is apparent that the highest gross erosion rates occur on soils with the greatest opportunity for improvement. SMG 1 has a current PGE of 9.4 tons/ac/yr (20.9-tonnes/hectare/yr). The principal reason for SMG 1 having the greatest PGE (outside SMG 10) is that it has the highest average slope of the SMGs at approximately seven percent.

Within the Maumee River Watershed lie Williams and Putnam Counties. The potential gross erosion tables for these two counties are located on p. 57 and p. 64. From these tables it is apparent that Williams County has some of the greatest values of PGE while Putnam has some of the lowest. A closer inspection of these tables reveals the reason for the difference in values between the two counties.

Williams County exhibits a present potential gross erosion rate which is more than double that of Putnam County. The presence of SMG 10 in Williams County indicates high land slopes which is likely responsible for the high PGE values.

Encouraging is the fact that in Williams County those soil management groups which possess the greatest acreages and potential gross erosion values are also suitable to no-till and reduced tillage farming; soil management groups 1 and 2 make up 66 percent of the cropland soils in Williams County. With implementation of the maximum reduction scenario potential gross erosion is reduced 77.6 percent and the rate of PGE is even lower than Putnam County under the same scenario.

PGE from cropland in Putnam County is only reduced 32 percent under the maximum reduction scenario. The reason for this lower reduction is that 45 percent of the land is in SMGs 3 and 9 and remains in conventional tillage under this scenario. While the conclusion that the maximum reduction scenario is an effective management strategy for

the Maumee River Basin (a 73 percent reduction in potential gross erosion from cropland), there are counties in the basin such as Putnam which require other soil conservation practices.

Honey Creek Watershed

Potential gross erosion values for the Honey Creek Watershed are summarized on p. 118. Cropland SMGs 1, 2, and 10 again exhibit the greatest rates of PGE at 8.0, 3.7, and 112.9 tons/ac/yr respectively. After implementation of maximum reduction tillage these values would drop to 1.2, 0.5, and 16.6 tons/acre/yr. Under maximum reduction tillage and reduced tillage scenarios the entire watershed would exhibit an 80 and 53 percent reduction in PGE respectively. Of the remaining scenarios, winter cover crop and spring plowing show only slight reductions in PGE. Conversely, fall plowing alone results in a seven percent increase in PGE. Maximum reduction tillage and reduced tillage-chisel plowing are obviously the preferred scenarios.

Cattaraugus Creek Watershed

Nine percent of the cropland in the Cattaraugus Creek Watershed is located on slopes greater than 18 percent (p. 268). This land accounts for the relatively high cropland PGE of 6.2 tons/ac/yr. Because almost 50 percent of the watershed is in low PGE woodland, grassland, and pasture, however, the average PGE for the basin is reduced to 3.2 tons/ac/yr.

A large variation exists in PGE values for the different land management alternatives. Switching to spring plowing or winter cover crop does little to reduce PGE while fall plowing alone increases PGE by 12 percent. Implementation of no-till and reduced tillage, on the other hand, will lower PGE 54 and 35 percent under maximum reduction tillage and reduced tillage-chisel plow scenarios respectively.

CONCLUSIONS

The adoption of the maximum reduction tillage scenario will result in a large reduction of PGE in the United States portion of the Lake Erie Basin. Its application of no-till and reduced tillage crop management systems to only those soils which exhibit adequate crop response assures the same or greater profit to the farmer. Though maximum reduction tillage results in the lowest PGE of any land management alternative investigated in this report, there are counties in the basin such as Putnam County, Ohio, where other soil conservation methods will be required.

The reduced tillage-chisel plowing scenario also shows favorable reductions in PGE as compared to present conditions though not as

great as the maximum reduction tillage alternative. Spring plowing and winter cover crop scenarios offer little or no reduction in PGE. Fall plowing of all cropland would increase PGE by 5-12 percent. In conclusion, maximum reduction tillage and reduced tillage-chisel plowing scenarios offer the most effective method to reduce cropland soil loss and diffuse source phosphorus input to Lake Erie.

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APPENDIX E

Major Watersheds

Note: In some cases the summation of values for watershed counties will not equal the "All in Basin" total for the watershed due to slight errors in data collection and coding

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: BLACK RIVER | | FARGO, MI | | COUNTY: 32 SAGINAW, MICHIGAN | | | | | | | | | | | | | | | |
|---------------------------------------|--|-----------------------------------|-----------------------------|-------------------------------|-------------------------------|---------------------------------------|-----------------------------|----------------------------|--------------------------------|-------------------------------|---|---|-------------------|----------|--|--|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | REDUCED GROSS EROSION (TONS/ACRE) | LOSS TO TILLAGE (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL WASH LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | REDUCED SOIL LOSS (TONS/ACRE) | TOTAL POTENTIAL GROSS EROSION (TONS/ACRE) | REDUCED TOTAL POTENTIAL GROSS EROSION (TONS/ACRE) | PERCENT REDUCTION | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| CROPLAND 1 | 33272.2 | 33272.2 | 32775.6 | 37245.0 | 33272.2 | 13900.8 | 29796.0 | 43337.4 | 0.0 | 0.0 | 33272.2 | 29796.0 | 0.0 | | | | | | |
| CROPLAND 2 | 30970.1 | 30970.1 | 30507.8 | 34668.0 | 30970.1 | 12942.7 | 27739.1 | 135465.7 | 0.0 | 0.0 | 30970.1 | 27739.1 | 0.0 | | | | | | |
| CROPLAND 3 | 344.1 | 344.1 | 339.0 | 345.2 | 344.1 | 344.1 | 344.1 | 889.6 | 0.0 | 0.0 | 344.1 | 344.1 | 0.0 | | | | | | |
| CROPLAND 4 | 743.8 | 743.8 | 732.7 | 832.6 | 743.8 | 666.1 | 666.1 | 3321.1 | 0.0 | 0.0 | 743.8 | 666.1 | 0.0 | | | | | | |
| CROPLAND 5 | 1218.0 | 1218.0 | 1199.0 | 1363.4 | 1218.0 | 1218.0 | 1218.0 | 17672.0 | 0.0 | 0.0 | 1218.0 | 1218.0 | 0.0 | | | | | | |
| CROPLAND 6 | 1964.3 | 1245.4 | 1930.9 | 2198.0 | 1964.3 | 820.9 | 1759.0 | 266.9 | 0.0 | 0.0 | 1964.3 | 1759.0 | 0.0 | | | | | | |
| CROPLAND 7 | 68512.5 | 67793.6 | 67489.8 | 76693.0 | 68512.5 | 29896.6 | 61517.5 | 195953.5 | 0.0 | 0.0 | 68512.5 | 61517.5 | 0.0 | | | | | | |
| VINEYARDS AND ORCH. | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 0.0 | 0.0 | 41.2 | 41.2 | 0.0 | | | | | | |
| GRASSLAND AND PASTURE | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 101.6 | 0.0 | 0.0 | 101.6 | 101.6 | 0.0 | | | | | | |
| WOODLAND | 265.5 | 265.5 | 265.5 | 265.5 | 265.5 | 265.5 | 265.5 | 265.5 | 0.0 | 0.0 | 265.5 | 265.5 | 0.0 | | | | | | |
| TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | | 222483.0 | | | | | |
| REDUCED TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | | 63083.3 | | | | | |
| PERCENT REDUCTION: | | | | | | | | | | | | | | 10.1 | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| SUSIN: BLACK RIVER | | FARGO, MI | | COUNTY: 35 LAPEER, MICHIGAN | | | | | | | | | | | | | | | |
|---------------------------------------|--|---|-------------------------------|-------------------------------|---------------------------------------|---|-------------------------------|---------------------------------------|-----------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WENT. GROUP LAND (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) |
| CROPLAND 1 | 438.3 | 438.3 | 432.2 | 499.1 | 458.3 | 133.9 | 425.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CROPLAND 2 | 3016.4 | 3016.4 | 2974.5 | 3435.4 | 3016.4 | 921.7 | 2884.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CROPLAND 4 | 50.5 | 50.5 | 49.6 | 57.5 | 50.5 | 40.7 | 355.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CROPLAND 5 | 12.7 | 12.7 | 12.5 | 14.5 | 12.7 | 12.7 | 118.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CROPLAND 10 | 494.4 | 494.4 | 487.6 | 563.1 | 494.4 | 151.1 | 39.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CROPLAND 10 | 12.5 | 12.5 | 12.3 | 14.3 | 12.5 | 3.8 | 10.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRASSLAND AND PASTURE | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WOODLAND | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 4063.4 | 3766.7 | 4007.7 | 4620.7 | 4063.4 | 1311.2 | 4635.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PERCENT REDUCTION: | 0.0 | 7.3 | 1.4 | -13.7 | 0.0 | 67.7 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: PLACK RIVER | | COUNTY: 34 ST. CLAIR, MICHIGAN | | | | | | | | | |
|--|------------------------------------|----------------------------------|-------------------------|-------------------------|---------------------------------|---|------------------------------------|--|--|--|--|
| LAND USE | EXISTING POT. GROSS FROSTION (TNS) | REDUCE LOSS TO T. FROSTION (TNS) | FALL PLOWING ONLY (TNS) | WINTER COVER CROP (TNS) | MAXIMUM REDUCTION TILLAGE (TNS) | REDUCED TILLAGE: CHISEL PLOW AREA (TNS) | SOIL MGMT. 2033P LAND AREA (ACRES) | EXISTING SOIL LOSS S T FACTOR (TNS/ACRE) | | | |
| CROPLAND 1 | 1818.8 | 1259.7 | 1792.4 | 2108.7 | 1818.8 | 606.3 | 1423.4 | 320.0 | | | |
| 346 | 1.7 | 1.2 | 1.7 | 2.0 | 1.7 | .6 | 1.1 | 4.7 | | | |
| CROPLAND 2 | 7736.6 | 7736.6 | 7624.5 | 8970.0 | 7736.6 | 2578.9 | 6384.3 | 0.0 | | | |
| 345 | .4 | .4 | .4 | .5 | .4 | .1 | .3 | 0.0 | | | |
| CROPLAND 3 | 37.0 | 37.0 | 36.5 | 42.9 | 37.0 | 37.0 | 37.0 | 0.0 | | | |
| 346 | 1.2 | 1.2 | 1.2 | 1.4 | 1.2 | 1.2 | 1.2 | 0.0 | | | |
| CROPLAND 4 | 410.7 | 410.7 | 404.7 | 476.2 | 410.7 | 321.4 | 321.4 | 0.0 | | | |
| 343 | .3 | .3 | .3 | .3 | .3 | .2 | .2 | 0.0 | | | |
| CROPLAND | 10003.1 | 9444.0 | 9258.1 | 11597.8 | 10003.1 | 3543.6 | 7836.6 | 320.0 | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| BRASSLAND AND PASTURE | 25.9 | 1100.0 | 25.9 | 2620.0 | 2620.0 | 2620.0 | 2620.0 | 0.0 | | | |
| WOODLAND | 115.4 | 115.4 | 115.4 | 3990.0 | 3990.0 | 3990.0 | 3990.0 | 0.0 | | | |
| SUMMARY TOTAL POTENTIAL GROSS FROSTION | 11752.5 | 11106.8 | 11524.6 | 13600.0 | 11752.5 | 4269.0 | 9242.5 | 29159.6 | | | |
| PERCENT REDUCTION: | 0.0 | 5.5 | 1.4 | -15.7 | 0.0 | 63.7 | 21.4 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: BLACK RIVER | | FARGO, MN | | COUNTY: 62 ALL IN BASIN | | | | | | | | | | | | | | | |
|---------------------------------------|---|-------------------------------|-------------------------------|--------------------------|--------------------------|----------------------------------|--|-------------------------------|---------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING ONLY AND EXISTING ONLY (TONS) | EXISTING GROSS EROSION (TONS) | EXISTING GROSS EROSION (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MENT. GROUP LAND (ACRES) | EXISTING SOIL LOSS > 7 FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) |
| CROPLAND 1 | 35529.2 | 34970.2 | 35009.2 | 39852.8 | 35529.2 | 14645.0 | 31572.4 | 43067.0 | 320.0 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| CROPLAND 2 | 41723.2 | 41723.2 | 41106.9 | 47073.4 | 41723.2 | 16443.3 | 36219.1 | 165568.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CROPLAND 3 | 381.1 | 381.1 | 375.4 | 428.1 | 381.1 | 381.1 | 381.1 | 919.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CROPLAND 4 | 1285.0 | 1285.0 | 1187.3 | 1356.3 | 1205.0 | 1028.2 | 1028.2 | 5086.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CROPLAND 5 | 1230.7 | 1230.7 | 1212.3 | 1377.9 | 1230.7 | 1230.7 | 1230.7 | 19037.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CROPLAND 10 | 2458.7 | 1443.1 | 2422.5 | 2761.9 | 2458.7 | 972.0 | 2157.3 | 306.4 | 306.4 | 8.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| CROPLAND 10 | 82527.9 | 80953.3 | 81304.6 | 92860.4 | 82527.9 | 34700.3 | 72588.3 | 231986.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| VINEYARDS AND ORCH. | 41.2 | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) | 41.2 (TONS) |
| GRASSLAND AND PASTURE | 208.5 | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) | 208.5 (TONS) |
| WOODLAND | 431.1 | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) | 431.1 (TONS) |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 86272.2 | 84766.0 | 85003.9 | 96985.1 | 86272.2 | 36683.7 | 75967.2 | 267705.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PERCENT REDUCTION: | 0.0 | -2.2 | 1.5 | -12.4 | 0.0 | 57.5 | 11.3 | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: PILL CREEK | | AVGCA:MI | | COUNTY: 32 SHELBY, MICHIGAN | | | | | | | | | | | | | |
|---------------------------------------|--|--|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---|---|---|---|---|---|---|---|---|---|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE) | EXISTING POT. REDUCE SOIL SPRING LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) |
| 1 | 1434.8 | 1434.6 | 1413.9 | 1434.1 | 1434.6 | 1284.9 | 1621.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 | 1010.0 | 1010.0 | 994.9 | 1138.4 | 1010.0 | 904.5 | 3993.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | 5.0 | 5.0 | 4.9 | 5.6 | 5.0 | 5.0 | 39.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | 10.2 | 10.2 | 10.0 | 11.4 | 10.2 | 9.1 | 39.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 | 9.9 | 9.9 | 9.7 | 11.1 | 9.9 | 9.9 | 197.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6 | 2469.9 | 2469.9 | 2432.9 | 2764.8 | 2469.9 | 1045.7 | 3990.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS/ACRE) | 79.1 (ACRES) | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 5.4 | 5.4 (TONS) | 5.4 (ACRES) | 593.1 (ACRES) | | | | | | | | | | | | | |
| WOODLAND | 15.9 | 15.9 (TONS) | 15.9 (ACRES) | 39.5 (ACRES) | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 2505.8 | 2505.8 | 2468.5 | 2892.4 | 2505.8 | 1973.2 | 6888.2 | | | | | | | | | | |
| PERCENT REDUCTION: | 0.0 | 0.0 | 1.5 | -11.4 | 0.0 | 57.2 | 18.3 | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: MILL CREEK | | | | AVOCA, MI | | | | COUNTY: 33 LAPEER, MICHIGAN | | | | | | | | | | | | | | | |
|---------------------------------------|------------------------------------|--|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|--|------------------------------------|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | POT. REDUCE LOSS TO T. AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW (TONS/ACRE) | SOIL MGMT. 203J+ LAND ATFA (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) | | | | | | | | | | | | | | |
| 200PLAND 1 | 1818.5 | 1849.5 | 1859.2 | 2142.1 | 1810.5 | 5747.6 | 15152.3 | 11426.1 | 39.5 | | | | | | | | | | | | | | |
| 546 | 1.6 | 1.6 | 1.6 | 1.9 | 1.6 | .5 | 1.3 | | 9.9 | | | | | | | | | | | | | | |
| 210PLAND 2 | 8376.5 | 8376.5 | 8260.2 | 9539.9 | 8376.5 | 2559.5 | 6747.7 | 11465.7 | 0.0 | | | | | | | | | | | | | | |
| 545 | .7 | .7 | .7 | .8 | .7 | .2 | .5 | | 0.0 | | | | | | | | | | | | | | |
| 210PLAND 4 | 311.3 | 311.3 | 306.9 | 354.5 | 311.3 | 250.7 | 250.7 | 1976.9 | 0.0 | | | | | | | | | | | | | | |
| 546 | .2 | .2 | .2 | .2 | .2 | .1 | .1 | | 0.0 | | | | | | | | | | | | | | |
| 210PLAND 5 | 269.1 | 269.1 | 265.3 | 306.4 | 269.1 | 269.1 | 269.1 | 3795.5 | 0.0 | | | | | | | | | | | | | | |
| 543 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | | 0.0 | | | | | | | | | | | | | | |
| 210PLAND 10 | 1178.4 | 434.9 | 1162.0 | 1342.0 | 1178.4 | 360.1 | 943.2 | 118.6 | 118.6 | | | | | | | | | | | | | | |
| 546 | 9.9 | 3.7 | 9.8 | 11.3 | 9.9 | 3.0 | 8.0 | | 9.9 | | | | | | | | | | | | | | |
| 213PLAND | 28945.8 | 27891.3 | 28543.6 | 32965.9 | 28945.8 | 9187.0 | 23369.5 | 28782.7 | | | | | | | | | | | | | | | |
| | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .3 | .9 | | | | | | | | | | | | | | | | |
| VINEYARDS AND ORCH. | 45.3 | 45.3 (TONS) | JATER AREA ONLY | 1858.2 (ACRES) | | | | | | | | | | | | | | | | | | | |
| | 39.5 | 39.5 (ACRES) | | | | | | | | | | | | | | | | | | | | | |
| | 1.15 | 1.15 (TONS/ACRE) | | | | | | | | | | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 95.8 | 95.8 (TONS) | OTHER LAND | 35584.3 (ACRES) | | | | | | | | | | | | | | | | | | | |
| | 1818.7 | 1818.7 (ACRES) | JSE AREA | | | | | | | | | | | | | | | | | | | | |
| | .05 | .05 (TONS/ACRE) | | | | | | | | | | | | | | | | | | | | | |
| WOODLAND | 495.4 | 495.4 (TONS) | MISSING DATA | 672.1 (ACRES) | | | | | | | | | | | | | | | | | | | |
| | 6405.0 | 6405.0 (ACRES) | | | | | | | | | | | | | | | | | | | | | |
| | .08 | .08 (TONS/ACRE) | | | | | | | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 30119.0 | 29045.4 | 29709.5 | 34212.0 | 30119.0 | 10001.7 | 24441.6 | 37718.0 | | | | | | | | | | | | | | | |
| | .8 | .8 | .9 | .9 | .8 | .3 | .5 | | | | | | | | | | | | | | | | |
| PERCENT REDUCTION: | 0.0 | 3.6 | 1.4 | -13.6 | 0.0 | 66.8 | 18.4 | | | | | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MILL CREEK | | AVOCAS | | COUNTY: 34 ST. CLAIR, MICHIGAN | | | | | | | | | | | | | | | |
|---------------------------------------|----------------------------------|--------------------|-------------------|--------------------------------|-----------------|-----------------|------------------|-----------------------|--------------------|----------|----------------------|---------------------|--------------------------|-------------------------------|----------------------|---------------------|--------------------------|-------------------------------|----------------------|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING | LOSS TO T. PLOWING | FALL PLOWING ONLY | WINTER CROP | MAXIMUM TILLAGE | REDUCED TILLAGE | CHISEL PLOW AREA | SOIL MGMT. GROUP LAND | EXISTING SOIL LOSS | Y FACTOR | EXISTING (TONS/ACRE) | REDUCED (TONS/ACRE) | CHISEL PLOW AREA (ACRES) | SOIL MGMT. GROUP LAND (ACRES) | EXISTING (TONS/ACRE) | REDUCED (TONS/ACRE) | CHISEL PLOW AREA (ACRES) | SOIL MGMT. GROUP LAND (ACRES) | EXISTING (TONS/ACRE) |
| CROPLAND 1 | 3026.7 | 2939.9 | 3372.0 | 3973.0 | 3026.7 | 1142.2 | 2681.3 | 1250.0 | 90.0 | 0.0 | 3026.7 | 1142.2 | 2681.3 | 1250.0 | 90.0 | 0.0 | 2681.3 | 1250.0 | 90.0 |
| CROPLAND 2 | 2081.7 | 2081.7 | 19790.7 | 23283.2 | 20041.7 | 6693.9 | 15716.1 | 34379.7 | 0.0 | 0.0 | 2081.7 | 6693.9 | 15716.1 | 34379.7 | 0.0 | 0.0 | 15716.1 | 34379.7 | 0.0 |
| CROPLAND 3 | 749.3 | 749.3 | 738.4 | 868.8 | 749.3 | 586.4 | 586.4 | 2980.0 | 0.0 | 0.0 | 749.3 | 586.4 | 586.4 | 2980.0 | 0.0 | 0.0 | 586.4 | 2980.0 | 0.0 |
| CROPLAND 4 | 111.5 | 111.5 | 109.9 | 129.3 | 111.5 | 111.5 | 111.5 | 1950.0 | 0.0 | 0.0 | 111.5 | 111.5 | 111.5 | 1950.0 | 0.0 | 0.0 | 111.5 | 1950.0 | 0.0 |
| CROPLAND 5 | 3026.7 | 2939.9 | 3372.0 | 3973.0 | 3026.7 | 1142.2 | 2681.3 | 1250.0 | 90.0 | 0.0 | 3026.7 | 1142.2 | 2681.3 | 1250.0 | 90.0 | 0.0 | 2681.3 | 1250.0 | 90.0 |
| VINEYARDS AND ORCH. | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 38.8 | 0.0 | 0.0 | 38.8 | 38.8 | 38.8 | 38.8 | 0.0 | 0.0 | 38.8 | 38.8 | 0.0 |
| BRASSLAND AND PASTURE | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 | 0.0 | 0.0 | 46.3 | 46.3 | 46.3 | 46.3 | 0.0 | 0.0 | 46.3 | 46.3 | 0.0 |
| WOODLAND | 156.1 | 156.1 | 156.1 | 156.1 | 156.1 | 156.1 | 156.1 | 156.1 | 0.0 | 0.0 | 156.1 | 156.1 | 156.1 | 156.1 | 0.0 | 0.0 | 156.1 | 156.1 | 0.0 |
| JANUARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | | | | | | | |
| PERCENT REDUCTION: | | 0.0 | 2.0 | 1.4 | -15.0 | 0.0 | 64.3 | 21.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: MILL CREEK | | AVOCA, MI | | COUNTY: 62 ALL IN BASIN | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------------------------------|-----------------------------|-------------------------|--------------------------|--------------------------|--------------------------|------------------------|-----------------------------|---------------------------|---|---------------------------|---|-------------------------------|-----------------------------|-------------------------|--------------------------|--------------------------|--------------------------|------------------------|-----------------------------|---------------------------|---|--|
| LAND USE | EXISTING GROSS EROSION (TONS) | POT. LOSS TO EROSION (TONS) | REDUCE SOIL LOSS (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION (TONS) | REDUCED TILLAGE (TONS) | SOIL MGMT. REDUCTION (TONS) | EXISTING SOIL LOSS (TONS) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | EXISTING SOIL LOSS (TONS) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | EXISTING GROSS EROSION (TONS) | POT. LOSS TO EROSION (TONS) | REDUCE SOIL LOSS (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION (TONS) | REDUCED TILLAGE (TONS) | SOIL MGMT. REDUCTION (TONS) | EXISTING SOIL LOSS (TONS) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | |
| CROPLAND 1 | 23671.9 | 22874.2 | 23339.6 | 27002.1 | 23671.9 | 7489.5 | 19113.3 | 14297.1 | 129.5 | 0.9 | 129.5 | 0.9 | 23671.9 | 22874.2 | 23339.6 | 27002.1 | 23671.9 | 7489.5 | 19113.3 | 14297.1 | 129.5 | 0.9 | |
| CROPLAND 2 | 29468.2 | 29468.2 | 29045.9 | 33953.5 | 29468.2 | 9675.5 | 23369.3 | 49538.6 | 0.0 | 0.0 | 0.0 | 0.0 | 29468.2 | 29468.2 | 29045.9 | 33953.5 | 29468.2 | 9675.5 | 23369.3 | 49538.6 | 0.0 | 0.0 | |
| CROPLAND 3 | 5.0 | 5.0 | 4.9 | 5.6 | 5.0 | 5.0 | 5.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 5.0 | 4.9 | 5.6 | 5.0 | 5.0 | 5.0 | 5.0 | 0.0 | 0.0 | |
| CROPLAND 4 | 1070.7 | 1070.7 | 1055.4 | 1234.5 | 1070.7 | 846.3 | 846.3 | 4996.4 | 0.0 | 0.0 | 0.0 | 0.0 | 1070.7 | 1070.7 | 1055.4 | 1234.5 | 1070.7 | 846.3 | 846.3 | 4996.4 | 0.0 | 0.0 | |
| CROPLAND 5 | 390.5 | 390.5 | 385.0 | 446.8 | 390.5 | 390.5 | 390.5 | 5853.2 | 0.0 | 0.0 | 0.0 | 0.0 | 390.5 | 390.5 | 385.0 | 446.8 | 390.5 | 390.5 | 390.5 | 5853.2 | 0.0 | 0.0 | |
| CROPLAND 10 | 1178.4 | 434.9 | 1162.0 | 1342.0 | 1178.4 | 360.1 | 943.2 | 118.6 | 118.6 | 9.9 | 118.6 | 9.9 | 1178.4 | 434.9 | 1162.0 | 1342.0 | 1178.4 | 360.1 | 943.2 | 118.6 | 118.6 | 9.9 | |
| VINEYARDS AND ORCH. | 84.0 | 84.0 | 84.0 | 84.0 | 2127.3 | 2127.3 | 2127.3 | 74843.4 | 0.0 | 0.0 | 0.0 | 0.0 | 84.0 | 84.0 | 84.0 | 84.0 | 2127.3 | 2127.3 | 2127.3 | 74843.4 | 0.0 | 0.0 | |
| GRASSLAND AND PASTURE | 147.6 | 147.6 | 147.6 | 147.6 | 8861.3 | 8861.3 | 8861.3 | 118.6 | 118.6 | 9.9 | 118.6 | 9.9 | 147.6 | 147.6 | 147.6 | 147.6 | 8861.3 | 8861.3 | 8861.3 | 118.6 | 118.6 | 9.9 | |
| WOODLAND | 667.4 | 667.4 | 667.4 | 667.4 | 4221.6 | 4221.6 | 4221.6 | 118.6 | 118.6 | 9.9 | 118.6 | 9.9 | 667.4 | 667.4 | 667.4 | 667.4 | 4221.6 | 4221.6 | 4221.6 | 118.6 | 118.6 | 9.9 | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | | | | | | | | | | | |
| 59331.2 | | 57718.3 | | 58502.2 | | 67914.2 | | 59331.2 | | 20584.4 | | 47706.5 | | 94507.3 | | 0.0 | | 65.3 | | 19.5 | | 0.0 | |
| PERCENT REDUCTION: | | | | | | | | | | | | | | | | | | | | | | | |

Lake Erie Wastewater Management Study
 Land Management Alternatives: Best Management Practice Scenarios

U.S. Army Corps of Engineers, Buffalo District

| BASIN: BELLE RIVER | | | MEMPHIS, TN | | | COUNTY: 33 LAFFER, MICHIGAN | | | | | | | | | | | | |
|---------------------------------------|-------------------------------|---|---------------------------------|--------------------------|--------------------------|----------------------------------|-------------------------------------|-----------------------------------|---------------------------------------|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS) | POT. LOSS TO EROSION AND EXISTING ONLY (TONS) | REDUCE SOIL PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW (TONS) | SOIL MGMT. 2030 LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) | | | | | | | | | |
| CROPLAND | 23717.0 | 23600.2 | 23387.6 | 27011.0 | 23717.0 | 7246.9 | 10105.3 | 13956.5 | 39.5 | | | | | | | | | |
| 546 1 | 1.7 | 1.7 | 1.7 | 1.9 | 1.7 | .5 | 1.4 | 5.0 | 5.0 | | | | | | | | | |
| CROPLAND | 8556.4 | 8556.4 | 8437.5 | 9744.8 | 8556.4 | 2614.5 | 6892.7 | 13007.6 | 0.0 | | | | | | | | | |
| 546 2 | .7 | .7 | .6 | .7 | .7 | .2 | .3 | 0.0 | 0.0 | | | | | | | | | |
| CROPLAND | 430.0 | 430.0 | 424.1 | 489.8 | 430.0 | 346.4 | 346.4 | 2490.0 | 0.0 | | | | | | | | | |
| 546 4 | .2 | .2 | .2 | .2 | .2 | .1 | .1 | 0.0 | 0.0 | | | | | | | | | |
| CROPLAND | 293.2 | 293.2 | 289.1 | 333.9 | 293.2 | 293.2 | 293.2 | 3835.1 | 0.0 | | | | | | | | | |
| 546 5 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | 0.0 | 0.0 | | | | | | | | | |
| CROPLAND | 9177.9 | 2174.5 | 7050.5 | 10452.7 | 9177.9 | 2804.4 | 7393.3 | 553.5 | 553.5 | | | | | | | | | |
| 546 10 | 16.6 | 3.9 | 16.4 | 18.9 | 16.6 | 5.1 | 13.4 | 16.6 | 16.6 | | | | | | | | | |
| CROPLAND | 42174.5 | 35054.3 | 41548.9 | 44032.2 | 42174.5 | 13305.4 | 34030.9 | 33643.5 | | | | | | | | | | |
| 1.2 | 1.0 | 1.2 | 1.4 | 1.2 | 1.2 | .4 | 1.3 | | | | | | | | | | | |
| VINEYARDS AND ORCH. | 106.2 | 106.2 (TONS) | 197.7 (ACRES) | 197.7 (ACRES) | 2016.4 (ACRES) | | | | | | | | | | | | | |
| 546 | .54 | .54 (TONS/ACRE) | | | | | | | | | | | | | | | | |
| PASTURELAND AND PASTURE | 286.1 | 286.1 (TONS) | 2546.6 (ACRES) | 2546.6 (ACRES) | 5732.8 (ACRES) | | | | | | | | | | | | | |
| 546 | .10 | .10 (TONS/ACRE) | | | | | | | | | | | | | | | | |
| WOODLAND | 790.9 | 790.9 (TONS) | 7077.1 (ACRES) | 7077.1 (ACRES) | 711.7 (ACRES) | | | | | | | | | | | | | |
| 546 | .11 | .11 (TONS/ACRE) | | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 44059.6 | 36824.1 | 43464.5 | 50012.1 | 44059.6 | 14723.1 | 35784.1 | 44676.6 | | | | | | | | | | |
| PERCENT REDUCTION: | 0.0 | 16.4 | 1.4 | -13.5 | 0.0 | 66.6 | 19.9 | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: BELLE RIVER | | COUNTY: IN ST. CLAIR, MICHIGAN | | | | | | | | | |
|---------------------------------------|--|--|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | | | |
| CROPLAND 1 | 1147.6 | 1042.7 | 1130.5 | 1330.5 | 1147.6 | 890.1 | 560.0 | 60.0 | | | |
| \$46 | 2.0 | 1.9 | 2.0 | 2.4 | 2.0 | .7 | 1.1 | 4.7 | | | |
| CROPLAND 2 | 13134.6 | 13134.6 | 12944.2 | 15228.5 | 13134.6 | 4378.2 | 25789.7 | 3.4 | | | |
| \$46 | .5 | .5 | .5 | .6 | .5 | .2 | .4 | 3.0 | | | |
| CROPLAND 4 | 899.7 | 899.7 | 886.7 | 1343.2 | 899.7 | 704.1 | 3830.0 | 0.0 | | | |
| \$46 | .2 | .2 | .2 | .3 | .2 | .2 | .2 | 0.0 | | | |
| CROPLAND 5 | 73.3 | 73.3 | 72.3 | 85.0 | 73.3 | 73.3 | 1220.0 | 0.0 | | | |
| \$46 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | 0.0 | | | |
| VINEYARDS AND ORCH. | 15255.2 | 15150.3 | 15034.1 | 17687.2 | 15255.2 | 5538.1 | 31399.7 | 0.0 | | | |
| | .5 | .5 | .5 | .6 | .5 | .2 | .4 | | | | |
| | 34.6 (TONS) | 34.6 (TONS) | 34.6 (TONS) | 160.0 (ACRES) | 160.0 (ACRES) | | | | | | |
| | 110.0 (ACRES) | 110.0 (ACRES) | 110.0 (ACRES) | | | | | | | | |
| | .31 (TONS/ACRE) | .31 (TONS/ACRE) | .31 (TONS/ACRE) | | | | | | | | |
| GRASSLAND AND PASTURE | 51.7 | 51.7 (TONS) | OTHER LAND USE AREA | 4270.0 (ACRES) | 4270.0 (ACRES) | | | | | | |
| | 2040.0 | 2040.0 (ACRES) | 51.7 (TONS) | | | | | | | | |
| | .03 (TONS/ACRE) | .03 (TONS/ACRE) | .03 (TONS/ACRE) | | | | | | | | |
| WOODLAND | 115.7 | 115.7 (TONS) | MISSING DATA | 4250.0 (ACRES) | 4250.0 (ACRES) | | | | | | |
| | 3000.0 | 3000.0 (ACRES) | | | | | | | | | |
| | .04 | .04 (TONS/ACRE) | | | | | | | | | |
| | .04 | .04 (TONS/ACRE) | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 17254.6 | 17137.5 | 17007.8 | 19969.4 | 17254.6 | 6407.6 | 40799.7 | | | | |
| | .4 | .4 | .4 | .5 | .4 | .2 | .3 | | | | |
| PERCENT REDUCTION: | 0.0 | .7 | 1.4 | -15.7 | 0.0 | 62.9 | 21.4 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: BELLE RIVER | | MEMPHIS, MI | | COUNTY: 3A MACOMB, MICHIGAN | | | | | | | | | | | | | | | |
|---------------------------------------|---|--|---------------------------------|-----------------------------|--------------------------|----------------------------------|------------------------|------------------------------------|---------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| LAND USE | EXISTING POTENTIAL GROSS FROSION (TONS) | LOSS TO PLOWING AND EXISTING ONLY (TONS) | SOIL SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE (TONS) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) | EXISTING SOIL LOSS (TONS) | EXISTING SOIL LOSS (TONS) | EXISTING SOIL LOSS (TONS) | EXISTING SOIL LOSS (TONS) | EXISTING SOIL LOSS (TONS) | EXISTING SOIL LOSS (TONS) | EXISTING SOIL LOSS (TONS) | EXISTING SOIL LOSS (TONS) | EXISTING SOIL LOSS (TONS) | EXISTING SOIL LOSS (TONS) |
| 1 | 24.3 | 24.3 | 24.0 | 24.0 | 27.7 | 24.0 | 4.9 | 50.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 | 207.0 | 207.0 | 204.3 | 236.0 | 204.3 | 41.4 | 119.5 | 210.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | 161.8 | 161.8 | 159.7 | 184.5 | 159.7 | 161.8 | 161.8 | 70.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | 7.9 | 7.9 | 7.8 | 9.0 | 7.8 | 4.3 | 4.3 | 20.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 | 3.0 | 3.0 | 2.9 | 3.4 | 2.9 | 3.0 | 3.0 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6 | 1.2 | 1.2 | 1.2 | 1.4 | 1.2 | 1.2 | 1.2 | 340.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| VINEYARDS AND ORCH. | 24.0 | 24.0 (TONS) | 10.0 (ACRES) | 90.0 (ACRES) | 90.0 (ACRES) | 90.0 (ACRES) | 90.0 (ACRES) | 90.0 (ACRES) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRASSLAND AND PASTURE | 7.3 | 7.3 (TONS) | 210.0 (ACRES) | 220.0 (ACRES) | 220.0 (ACRES) | 220.0 (ACRES) | 220.0 (ACRES) | 220.0 (ACRES) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WOODLAND | 2.8 | 2.8 (TONS) | 70.0 (ACRES) | 120.0 (ACRES) | 120.0 (ACRES) | 120.0 (ACRES) | 120.0 (ACRES) | 120.0 (ACRES) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SUMMARY TOTAL POTENTIAL GROSS FROSION | 521.5 | 521.5 | 515.2 | 598.9 | 515.2 | 297.0 | 394.3 | 750.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PERCENT REDUCTION: | 0.0 | 0.0 | 1.2 | -12.9 | 1.2 | 43.0 | 24.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: BELLE RIVER | | MEMPHIS, MI | | COUNTY: 62 ALL IN BASIN | | | | | | | | | | | | | | | |
|--|--|--------------------------|--------------------------|----------------------------------|---|-------------------------------|---|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CRIPSEL PLow AREA (TONS) | SOIL MGMT. GROUP LAND (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) |
| 1 | 2488.6 | 2467.3 | 2454.5 | 2036.2 | 2008.5 | 7634.2 | 20016.3 | 10546.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 2 | 21898.0 | 21898.0 | 21586.1 | 25209.3 | 21895.3 | 7034.1 | 17286.5 | 59007.2 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 3 | 161.0 | 161.0 | 159.7 | 184.5 | 159.7 | 161.0 | 161.0 | 78.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | 1337.6 | 1337.6 | 1318.5 | 1541.9 | 1337.5 | 1054.9 | 1054.9 | 6348.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 | 369.5 | 369.5 | 364.3 | 422.3 | 369.5 | 369.5 | 369.5 | 5065.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10 | 9177.9 | 2174.5 | 9050.5 | 10452.7 | 9177.9 | 2804.4 | 7393.3 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 | 553.5 |
| 20 | 57833.6 | 50688.7 | 57021.0 | 66179.9 | 57828.4 | 19058.9 | 46282.7 | 65583.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| VINEYARDS AND ORCH. | 164.9 | 164.9 (TONS) | 317.7 (ACRES) | 2266.4 (ACRES) | 2266.4 (ACRES) | 2266.4 (ACRES) | 2266.4 (ACRES) | 2266.4 (ACRES) | 2266.4 (ACRES) | 2266.4 (ACRES) | 2266.4 (ACRES) | 2266.4 (ACRES) | 2266.4 (ACRES) | 2266.4 (ACRES) | 2266.4 (ACRES) | 2266.4 (ACRES) | 2266.4 (ACRES) | 2266.4 (ACRES) | 2266.4 (ACRES) |
| WASSLAND AND PASTURE | 345.2 | 345.2 (TONS) | 5096.6 (ACRES) | 10222.0 (ACRES) | 10222.0 (ACRES) | 10222.0 (ACRES) | 10222.0 (ACRES) | 10222.0 (ACRES) | 10222.0 (ACRES) | 10222.0 (ACRES) | 10222.0 (ACRES) | 10222.0 (ACRES) | 10222.0 (ACRES) | 10222.0 (ACRES) | 10222.0 (ACRES) | 10222.0 (ACRES) | 10222.0 (ACRES) | 10222.0 (ACRES) | 10222.0 (ACRES) |
| WODLAND | 909.4 | 909.4 (TONS) | 10147.1 (ACRES) | 5081.6 (ACRES) | 5081.6 (ACRES) | 5081.6 (ACRES) | 5081.6 (ACRES) | 5081.6 (ACRES) | 5081.6 (ACRES) | 5081.6 (ACRES) | 5081.6 (ACRES) | 5081.6 (ACRES) | 5081.6 (ACRES) | 5081.6 (ACRES) | 5081.6 (ACRES) | 5081.6 (ACRES) | 5081.6 (ACRES) | 5081.6 (ACRES) | 5081.6 (ACRES) |
| SUMMARY TOTAL POTENTIAL GROSS FROSTING | 62963.8 | 55246.4 | 62103.9 | 71632.4 | 62956.3 | 21760.8 | 50683.7 | 85226.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PERCENT REDUCTIONS: | 0.0 | 12.2 | 1.4 | -14.1 | 0.0 | 65.4 | 19.5 | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CLINTON RIVER | | | | | | | | | | MT. CLEMENS, MI | | | | | | | | | | COUNTY: 33 LAFAYETTE, MICHIGAN | | | | | | | | | |
|---------------------------------------|--------|---|--------------|-------------------------------|--------------|-------------------------------|--------------|---------------------------------------|--------------|--|--|-------------------------------|--|---------------------------------------|--|--------------------------------|--|--|--|--------------------------------|--|--|--|--|--|--|--|--|--|
| LAND USE | | EXISTING POT. REDUCED SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE) | | FALL PLOWING ONLY (TONS/ACRE) | | WINTER COVER CROP (TONS/ACRE) | | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | | REDUCED TILLAGE: CHIEFLY PLOW AREA (TONS/ACRE) | | SOIL MGMT. GROUP LAND (ACRES) | | EXISTING SOIL LOSS > 1 FACTOR (ACRES) | | EXISTING SOIL LOSS (TONS/ACRE) | | | | | | | | | | | | | |
| 1 | 5072.4 | 5049.1 | 5001.9 | 5776.9 | 5072.4 | 4385.1 | 3139.7 | 474.4 | 3.1 | | | | | | | | | | | | | | | | | | | | |
| 2 | 938.6 | 938.6 | 925.6 | 1069.0 | 938.6 | 756.1 | 2253.6 | 0.0 | 0.0 | | | | | | | | | | | | | | | | | | | | |
| 4 | 75.2 | 75.2 | 74.2 | 95.7 | 75.2 | 63.5 | 395.4 | 0.0 | 0.0 | | | | | | | | | | | | | | | | | | | | |
| 5 | 24.9 | 24.9 | 24.6 | 24.4 | 24.9 | 24.9 | 316.3 | 0.0 | 0.0 | | | | | | | | | | | | | | | | | | | | |
| 10 | 3167.0 | 711.7 | 3123.1 | 3606.9 | 3167.0 | 2551.2 | 197.7 | 197.7 | 16.0 | | | | | | | | | | | | | | | | | | | | |
| 10 | 9278.1 | 6798.5 | 9149.4 | 10566.8 | 9278.1 | 7479.3 | 6502.7 | 1.1 | 1.1 | | | | | | | | | | | | | | | | | | | | |
| VINEYARDS AND ORCH. | | 145.6 | 145.6 (TONS) | 145.6 (TONS) | 145.6 (TONS) | 145.6 (TONS) | 145.6 (TONS) | 145.6 (TONS) | 145.6 (TONS) | | | | | | | | | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | | 67.2 | 67.2 (TONS) | 67.2 (TONS) | 67.2 (TONS) | 67.2 (TONS) | 67.2 (TONS) | 67.2 (TONS) | 67.2 (TONS) | | | | | | | | | | | | | | | | | | | | |
| WETLAND | | 131.7 | 131.7 (TONS) | 131.7 (TONS) | 131.7 (TONS) | 131.7 (TONS) | 131.7 (TONS) | 131.7 (TONS) | 131.7 (TONS) | | | | | | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | 9662.3 | 7172.5 | 7533.1 | 10956.3 | 9662.3 | 7853.7 | 9607.4 | 1.0 | | | | | | | | | | | | | | | | | | | | |
| PERCENT REDUCTION: | | 9.0 | 25.8 | 1.3 | -13.4 | 0.0 | 66.4 | 18.7 | | | | | | | | | | | | | | | | | | | | | |

LAKE ERIC WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CLINTON RIVER | | | | MT. CLEMENS, MI | | COUNTY: 34 ST. CLAIR, MICHIGAN | | | | | | | | | |
|---------------------------------------|---|--|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|-------------------------------|---------------------------------------|--|--|--|--|--|--|
| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WASH. GROUP LAND (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) | | | | | | |
| CROPLAND 1 | 109.1 | 109.1 | 107.5 | 126.4 | 109.1 | 36.4 | 85.3 | 200.0 | 0.0 | | | | | | |
| 346 | .5 | .5 | .5 | .6 | .5 | .2 | .4 | | 0.0 | | | | | | |
| CROPLAND 2 | 1407.8 | 1407.8 | 1387.4 | 1632.2 | 1407.8 | 469.3 | 1101.7 | 5149.3 | 0.0 | | | | | | |
| 345 | .3 | .3 | .3 | .3 | .3 | .1 | .2 | | 0.0 | | | | | | |
| CROPLAND 4 | 119.8 | 119.8 | 118.1 | 136.9 | 119.8 | 93.8 | 93.9 | 510.0 | 0.0 | | | | | | |
| 346 | .2 | .2 | .2 | .3 | .2 | .2 | .2 | | 0.0 | | | | | | |
| CROPLAND 5 | 3.1 | 3.1 | 3.1 | 3.6 | 3.1 | 3.1 | 3.1 | 30.0 | 0.0 | | | | | | |
| 345 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | | 0.0 | | | | | | |
| CROPLAND | 1639.8 | 1639.8 | 1616.1 | 1901.1 | 1639.8 | 602.6 | 1283.3 | 5689.3 | | | | | | | |
| | .3 | .3 | .3 | .3 | .3 | .1 | .2 | | | | | | | | |
| VINEYARDS AND ORCH. | 3.5 | 3.5 (TONS) | 10.0 (ACRES) | AREA ONLY | 0.0 (ACRES) | | | | | | | | | | |
| | .35 | .35 (TONS/ACRE) | | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 5.0 | 5.0 (TONS) | OTHER LAND | 1190.0 (ACRES) | | | | | | | | | | | |
| | 450.0 | 450.0 (ACRES) | USE AREA | | | | | | | | | | | | |
| | .01 | .01 (TONS/ACRE) | | | | | | | | | | | | | |
| WOODLAND | 9.2 | 9.2 (TONS) | MISSING DATA | 200.6 (ACRES) | | | | | | | | | | | |
| | 480.0 | 480.0 (ACRES) | | | | | | | | | | | | | |
| | .02 | .02 (TONS/ACRE) | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 1706.0 | 1681.6 | 1975.0 | 1706.0 | 1706.0 | 638.5 | 1339.7 | 7029.9 | | | | | | | |
| | .2 | .2 | .3 | .2 | .2 | .1 | .2 | | | | | | | | |
| PERCENT REDUCTIONS: | 0.0 | 0.0 | 1.4 | -15.4 | 0.0 | 62.6 | 21.5 | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

WATER: CLINTON RIVER MT. CLEMENS, MI COUNTY: 37 OAKLAND, MICHIGAN

| LAND USE | EXISTING POTENTIAL LOSS TO EROSION (TONS/ACRE) | EXISTING POTENTIAL LOSS TO EROSION AND EXISTING ONLY (TONS/ACRE) | SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) |
|---------------------------------------|--|---|---------------------------------------|-------------------------------------|--------------------------------|--|---|--|--|
| CROPLAND 1 SAG | 1833.9 1.9 | 1833.9 1.9 | 1000.6 1.9 | 2200.7 2.3 | 1433.9 1.9 | 600.2 1.9 | 1367.1 1.4 | 950.0 | 0.0 |
| CROPLAND 2 SAG | 93.0 0.3 | 93.0 0.3 | 91.3 0.2 | 111.6 0.3 | 93.0 0.3 | 30.4 0.1 | 69.3 0.2 | 370.0 | 0.0 |
| CROPLAND 4 SAG | 2.7 0.1 | 2.7 0.1 | 2.7 0.1 | 3.2 0.2 | 2.7 0.1 | 2.0 0.1 | 2.0 0.1 | 20.0 | 0.0 |
| CROPLAND 5 SAG | 0.5 0.0 | 0.5 0.0 | 0.5 0.0 | 0.7 0.1 | 0.5 0.0 | 0.5 0.0 | 0.5 0.0 | 10.0 | 0.0 |
| CROPLAND 10 SAG | 331.9 11.1 | 150.0 5.0 | 325.8 10.9 | 398.2 13.3 | 331.9 11.1 | 100.6 3.6 | 247.4 8.2 | 30.0 | 30.0 |
| CROPLAND 10 SAG | 2262.0 1.6 | 2080.1 1.5 | 2220.9 1.6 | 2714.4 2.0 | 2262.0 1.6 | 741.7 0.5 | 1586.3 1.2 | 1300.0 | 0.0 |
| VINEYARDS AND ORCH. | 8.6 0.0 | 8.6 (TONS) 40.0 (ACRES) | ATER AREA ONLY | | 190.0 (ACRES) | | | | |
| GRASSLAND AND PASTURE | 278.4 2990.0 | 278.4 (TONS) 2990.0 (ACRES) | OTHER LAND USE AREA | | 2760.0 (ACRES) | | | | |
| WOODLAND | 187.1 950.0 | 187.1 (TONS) 950.0 (ACRES) | MISSING DATA | | 229883.0 (ACRES) | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 120043.7 | 112100.3 | 118279.8 | 130938.9 | 120043.7 | 53359.8 | 94017.0 | 235243.0 | 0.0 |
| PERCENT REDUCTION: | 0.0 | 6.4 | 1.5 | -16.5 | 0.0 | 55.6 | 21.0 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CLINTON RIVER | | | MT. CLEMENS, MI | | | COUNTY: 34 MACOMB, MICHIGAN | | | | | |
|---------------------------------------|---|-------------------------------|---------------------------------|--------------------------|--------------------------|----------------------------------|---|------------------------------------|---------------------------------------|--|--|
| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | REDUCE LOSS TO T. ONLY (TONS) | SOIL SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | | |
| CROPLAND 1 | 34227.6 | 34144.8 | 33771.2 | 39019.5 | 33771.2 | 6845.5 | 18939.3 | 10149.3 | 2020.0 | | |
| SWG | 2.4 | 2.4 | 2.4 | 2.8 | 2.4 | .5 | 1.3 | | 3.0 | | |
| CROPLAND 2 | 27388.9 | 27388.9 | 27023.7 | 31223.3 | 27023.7 | 5477.6 | 15155.2 | 33979.5 | 0.0 | | |
| SWG | .7 | .7 | .7 | .8 | .7 | .1 | .4 | | 0.0 | | |
| CROPLAND 3 | 4430.3 | 4430.3 | 4371.2 | 5030.6 | 4371.2 | 4430.3 | 4430.3 | 3280.0 | 0.0 | | |
| SWG | 1.4 | 1.4 | 1.3 | 1.5 | 1.3 | 1.4 | 1.4 | | 0.0 | | |
| CROPLAND 4 | 6935.4 | 6935.4 | 6842.9 | 7906.3 | 6842.9 | 3837.6 | 3837.5 | 15169.3 | 0.0 | | |
| SWG | .5 | .5 | .5 | .5 | .5 | .3 | .3 | | 0.0 | | |
| CROPLAND 5 | 1093.5 | 1093.5 | 1078.9 | 1246.5 | 1078.9 | 1093.5 | 1093.5 | 2540.0 | 0.0 | | |
| SWG | .4 | .4 | .4 | .5 | .4 | .4 | .4 | | 0.0 | | |
| CROPLAND 6 | 47.0 | 47.0 | 46.4 | 53.6 | 46.4 | 26.0 | 25.3 | 110.8 | 0.0 | | |
| SWG | .4 | .4 | .4 | .5 | .4 | .2 | .2 | | 0.0 | | |
| CROPLAND 9 | 575.2 | 575.2 | 567.4 | 655.8 | 567.6 | 575.2 | 575.2 | 1100.0 | 0.0 | | |
| SWG | .5 | .5 | .5 | .6 | .5 | .5 | .5 | | 0.0 | | |
| CROPLAND 10 | 926.9 | 170.0 | 914.5 | 1056.6 | 914.5 | 185.4 | 512.3 | 40.0 | 40.0 | | |
| SWG | 23.2 | 4.3 | 22.9 | 26.4 | 22.9 | 4.6 | 12.3 | | 23.2 | | |
| CROPLAND 11 | 75624.8 | 74785.1 | 74616.4 | 86212.2 | 74616.4 | 22471.3 | 44570.9 | 75449.4 | | | |
| SWG | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .3 | .5 | | | | |
| VINEYARDS AND ORCH. | 763.3 | 763.3 (TONS) | JATER AREA ONLY | 1340.0 (ACRES) | | | | | | | |
| | 1680.0 | 1680.0 (ACRES) | | | | | | | | | |
| | .45 | .45 (TONS/ACRE) | | | | | | | | | |
| GRASSLAND AND PASTURE | 1162.2 | 1162.2 (TONS) | OTHER LAND USE AREA | 56009.4 (ACRES) | | | | | | | |
| | 35379.7 | 35379.7 (ACRES) | | | | | | | | | |
| | .03 | .03 (TONS/ACRE) | | | | | | | | | |
| WOODLAND | 538.1 | 538.1 (TONS) | MISSING DATA | 28617.5 (ACRES) | | | | | | | |
| | 12719.9 | 12719.9 (ACRES) | | | | | | | | | |
| | .04 | .04 (TONS/ACRE) | | | | | | | | | |
| JANUARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | |
| | 95791.9 | 94761.8 | 94554.9 | 108779.6 | 94554.9 | 30587.9 | 57695.5 | 154466.3 | | | |
| | .6 | .6 | .6 | .7 | .6 | .2 | .4 | | | | |
| PERCENT REDUCTION: | | | | | | | | | | | |
| | 0.0 | 1.1 | 1.3 | -13.6 | 1.3 | 68.1 | 39.3 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CLINTON RIVER | | MT. CLEMENS, MI | | COUNTY: 62 ALL IN BASIN | | | | | | | | | | | | | | | |
|---------------------------------------|--|--|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|-----------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) |
| CROPLAND 1 | 40111.2 | 40004.2 | 43517.6 | 43654.8 | 7960.6 | 26836.1 | 21241.3 | 2994.4 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 546 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| CROPLAND 2 | 30486.5 | 30486.5 | 30078.9 | 30121.3 | 6454.4 | 17623.5 | 44309.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 545 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .6 |
| CROPLAND 3 | 4430.3 | 4430.3 | 4371.2 | 4371.2 | 4430.3 | 4430.3 | 3200.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 546 | 1.4 | 1.4 | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| CROPLAND 4 | 7261.0 | 7261.0 | 7164.3 | 7164.3 | 4099.1 | 4099.1 | 16629.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 545 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 |
| CROPLAND 5 | 1194.5 | 1194.5 | 1178.7 | 1178.7 | 1194.5 | 1194.5 | 3696.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 546 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 |
| CROPLAND 6 | 47.0 | 47.0 | 46.4 | 46.4 | 26.0 | 26.0 | 110.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 546 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 |
| CROPLAND 9 | 575.2 | 575.2 | 567.6 | 567.6 | 575.2 | 575.2 | 1180.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 545 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 |
| CROPLAND 10 | 4425.8 | 1031.7 | 4363.4 | 4413.4 | 1261.7 | 3311.5 | 267.7 | 267.7 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |
| 546 | 16.5 | 3.9 | 16.5 | 16.5 | 4.7 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 |
| CROPLAND | 92531.5 | 89030.4 | 91280.1 | 91523.2 | 27901.8 | 58096.3 | 95214.6 | 2994.4 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 546 | 1.0 | .9 | 1.0 | 1.1 | .3 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | .5 |
| VINEYARDS AND ORCH. | 920.9 | 920.9 | 920.9 | 920.9 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 | 2004.4 |
| 546 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 | .44 |
| PASTURE AND PASTURE | 1527.9 | 1527.9 | 1527.9 | 1527.9 | 61600.1 | 61600.1 | 61600.1 | 61600.1 | 61600.1 | 61600.1 | 61600.1 | 61600.1 | 61600.1 | 61600.1 | 61600.1 | 61600.1 | 61600.1 | 61600.1 | 61600.1 |
| 546 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 |
| FOODLAND | 927.1 | 927.1 | 927.1 | 927.1 | 270853.2 | 270853.2 | 270853.2 | 270853.2 | 270853.2 | 270853.2 | 270853.2 | 270853.2 | 270853.2 | 270853.2 | 270853.2 | 270853.2 | 270853.2 | 270853.2 | 270853.2 |
| 546 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 |
| 5/49494 TOTAL POTENTIAL GROSS EROSION | 263196.2 | 253588.3 | 259764.0 | 260429.2 | 85934.6 | 168696.5 | 425134.5 | 2994.4 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PERCENT REDUCTIONS: | 0.0 | 3.7 | 1.3 | -13.6 | 1.1 | 67.4 | 35.9 | 2994.4 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

[illegible]

LAKE ERIE WASTE/WATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

W. JEFFERSON BRIDGE, MI COUNTY: 37 CAYLAND, MICHIGAN

BASIN: ROUGE RIVER

| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | REDUCE LOSS TO T. ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL P. 20 AREA (TONS/ACRE) | SOIL WGT. LOSS FACTOR (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) |
|--|---|------------------------------------|-------------------------------|-------------------------------|---------------------------------------|--|-------------------------------|-----------------------------------|
| 330PLAND 1 | 212.7 | 212.7 | 208.4 | 255.3 | 212.7 | 69.6 | 159.5 | 100.0 |
| 343 | 2.1 | 2.1 | 2.1 | 2.6 | 2.1 | .7 | 1.5 | 0.0 |
| 330PLAND 2 | 16.8 | 16.8 | 16.5 | 20.1 | 16.8 | 5.5 | 12.5 | 30.0 |
| 346 | .6 | .6 | .6 | .7 | .6 | .2 | .8 | 0.0 |
| 330PLAND 10 | 108.6 | 50.0 | 106.6 | 130.3 | 108.6 | 35.5 | 80.3 | 10.0 |
| 343 | 10.9 | 5.0 | 10.7 | 13.0 | 10.9 | 3.6 | 8.1 | 10.9 |
| 330PLAND | 338.1 | 279.5 | 331.9 | 405.7 | 338.1 | 110.6 | 252.3 | 140.0 |
| 343 | 2.4 | 2.0 | 2.4 | 2.9 | 2.4 | .8 | 1.5 | 0.0 |
| VINEYARDS AND ORCH. | 79.6 | 79.6 (TONS) | 79.6 (TONS) | 100.0 (ACRES) | 50.0 (ACRES) | | | |
| 330PLAND AND PASTURE | 317.1 | 317.1 (TONS) | 317.1 (TONS) | 3020.0 (ACRES) | 3020.0 (ACRES) | | | |
| 343 | 3010.0 | 3010.0 (ACRES) | 3010.0 (ACRES) | 3020.0 (ACRES) | 3020.0 (ACRES) | | | |
| 330PLAND | 134.4 | 134.4 (TONS) | 134.4 (TONS) | MISSING DATA | 94850.7 (ACRES) | | | |
| 343 | 780.0 | 780.0 (ACRES) | 780.0 (ACRES) | | | | | |
| 330PLAND | .17 | .17 (TONS/ACRE) | .17 (TONS/ACRE) | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS FROSTION | 21326.8 | 19889.0 | 21174.7 | 22985.5 | 21326.8 | 15744.8 | 19210.5 | 99980.7 |
| PERCENT REDUCTION: | 0.0 | 6.7 | .7 | -7.8 | 0.0 | 26.2 | 19.3 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

Basin: ROUGE RIVER W. JEFFERSON BRIDGE, MI COUNTY: 43 WASHTENAW, MICHIGAN

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO 1 PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL WASH GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) |
|---------------------------------------|--|------------------------------------|-------------------------------|-------------------------------|---------------------------------------|-----------------------------|-----------------------------------|---|
| CROPLAND 1 | 13365.6 | 10306.2 | 13137.1 | 15193.3 | 13022.9 | 2627.4 | 3290.0 | 1330.0 |
| SW6 | 4.1 | 3.2 | 4.0 | 4.6 | 4.0 | .8 | 2.2 | 4.9 |
| CROPLAND 2 | 2718.8 | 2718.8 | 2672.3 | 3090.5 | 2649.0 | 534.5 | 1850.0 | 0.0 |
| SW6 | 1.5 | 1.5 | 1.4 | 1.7 | 1.4 | .3 | .5 | 0.0 |
| CROPLAND 3 | 2282.1 | 2198.0 | 2243.1 | 2594.2 | 2223.6 | 2282.1 | 730.0 | 730.0 |
| SW6 | 3.1 | 3.0 | 3.1 | 3.6 | 3.0 | 3.1 | 3.1 | 3.1 |
| CROPLAND 4 | 958.0 | 556.0 | 540.4 | 634.3 | 543.7 | 295.7 | 1710.0 | 0.0 |
| SW6 | .3 | .3 | .3 | .4 | .3 | .2 | .2 | 0.0 |
| CROPLAND 5 | 35.3 | 35.3 | 34.7 | 40.1 | 34.4 | 35.3 | 150.0 | 0.0 |
| SW6 | .2 | .2 | .2 | .3 | .2 | .2 | .2 | 0.0 |
| CROPLAND 10 | 230.9 | 20.0 | 227.0 | 262.5 | 225.0 | 45.4 | 10.0 | 10.0 |
| SW6 | 23.1 | 2.0 | 22.7 | 26.3 | 22.5 | 4.5 | 12.2 | 23.1 |
| CROPLAND | 19190.7 | 15902.3 | 18862.6 | 21814.9 | 18698.6 | 5820.4 | 7740.0 | 11259.9 |
| SW6 | 2.5 | 2.1 | 2.4 | 2.8 | 2.4 | .8 | 1.5 | 1.5 |
| VINEYARDS AND ORCH. | 39.5 | 39.5 (TONS) | JATER AREA ONLY | 150.0 (ACRES) | | | | |
| SW6 | 50.8 | 50.0 (ACRES) | | | | | | |
| SW6 | .79 | .79 (TONS/ACRE) | | | | | | |
| GRASSLAND AND PASTURE | 263.1 | 263.1 (TONS) | OTHER LAND | 5570.0 (ACRES) | | | | |
| SW6 | 3580.0 | 3580.0 (ACRES) | JSE AREA | | | | | |
| SW6 | .07 | .07 (TONS/ACRE) | | | | | | |
| WOODLAND | 155.7 | 155.7 (TONS) | MISSING DATA | 2160.0 (ACRES) | | | | |
| SW6 | 1090.0 | 1090.0 (ACRES) | | | | | | |
| SW6 | .14 | .14 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 23055.2 | 19196.8 | 22670.3 | 26134.4 | 22471.8 | 7367.1 | 13749.3 | 14620.0 |
| SW6 | 1.6 | 1.3 | 1.6 | 1.8 | 1.5 | .5 | .3 | .3 |
| PERCENT REDUCTION: | 0.0 | 16.7 | 1.7 | -13.4 | 2.5 | 68.0 | 90.1 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| W. JEFFERSON BRIDGE, MI COUNTY: 41 LAWN, MICHIGAN | | | | | | | | | |
|---|---|---|-----------------|---------------------|----------|------------------|---------|-------------------|----------|
| BASIN: ROUGE RIVER | | EXISTING POT. REDUCE | | FALL PLOWING | | WINTER COVER | | MAXIMUM REDUCTION | |
| LAND USE | | GROSS LOSS TO T. PLOWING AND EXISTING ONLY (TONS) | | ONLY (TONS) | | CROP (TONS) | | TILLAGE (TONS) | |
| | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | |
| 1 | CROPLAND 1 | 16871.0 | 5635.2 | 16684.6 | 18548.8 | 16471.0 | 3169.1 | 2248.0 | 9.8 |
| | 346 | 7.5 | 2.5 | 7.4 | 8.3 | 7.5 | 1.4 | 4.0 | 2140.0 |
| 2 | CROPLAND 2 | 11111.0 | 10710.1 | 10984.3 | 12216.0 | 11111.0 | 2087.2 | 5831.9 | 3.2 |
| | 345 | 1.4 | 1.4 | 1.4 | 1.5 | 1.4 | .3 | .7 | 0.0 |
| 3 | CROPLAND 3 | 1171.8 | 1171.8 | 1158.9 | 1248.3 | 1171.8 | 615.0 | 615.0 | 0.0 |
| | 346 | .5 | .5 | .5 | .5 | .5 | .2 | .2 | 0.0 |
| 4 | CROPLAND 4 | 142.9 | 142.9 | 141.3 | 157.1 | 142.9 | 142.9 | 142.9 | 9.0 |
| | 345 | .7 | .7 | .7 | .7 | .7 | .7 | .7 | 0.0 |
| 5 | CROPLAND 5 | 29296.7 | 17660.0 | 26973.1 | 32210.2 | 29296.7 | 6014.2 | 15440.5 | 12490.0 |
| | 346 | 2.3 | 1.4 | 2.2 | 2.5 | 2.3 | .5 | 1.2 | |
| 6 | VINEYARDS AND ORCH. | 182.4 | 182.4 (TONS) | JATER AREA ONLY | | 400.0 (ACRES) | | | |
| | 346 | .79 | .79 (TONS/ACRF) | | | | | | |
| 7 | GRASSLAND AND PASTURE | 771.1 | 771.1 (TONS) | OTHER LAND USE AREA | | 35599.5 (ACRES) | | | |
| | 346 | .83 | .83 (TONS/ACRE) | | | | | | |
| 8 | WOODLAND | 304.0 | 304.0 (TONS) | MISSING DATA | | 107175.7 (ACRES) | | | |
| | 346 | .05 | .05 (TONS/ACRE) | | | | | | |
| 9 | SWAMPY TOTAL POTENTIAL GROSS PRODUCTION | 108933.4 | 67445.6 | 107779.7 | 119320.8 | 108913.4 | 25925.4 | 59547.2 | 149355.3 |
| | 346 | .7 | .5 | .7 | .8 | .7 | .2 | .4 | |
| 10 | PERCENT REDUCTION: | 8.0 | 38.1 | 1.1 | -9.5 | 0.0 | 76.2 | 65.3 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: ROUGE RIVER | | W. JEFFERSON BRIDGE, MI COUNTY: 62 ALL IV BASIN | | | | | | | | | |
|--------------------------------------|----------------------|---|---------------|------------------|---------------|------------------|-------------|-------------|--|--|--|
| LAND USE | EXISTING POT. REDUCE | SOIL SPRING | FALL | WINTER | MAXIMUM | REDUCED | SOIL MGMT. | EXISTING | | | |
| | GROSS | LOSS TO T | PLOWING | COVER | TILLAGE | TILLAGE | GROUP LAND | SOIL LOSS | | | |
| | EROSION | AND EXISTING ONLY | ONLY | CROP | TILLAGE | CHISEL PLOW AREA | | > T FACTOR | | | |
| | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (ACRES) | (ACRES) | | | |
| | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | | | |
| CROPLAND 1 | 3849.3 | 16228.1 | 50039.5 | 33997.4 | 30106.6 | 5866.2 | 16096.1 | 2958.0 | | | |
| 345 | 5.4 | 2.9 | 5.3 | 6.0 | 5.3 | 1.0 | 2.9 | 7.6 | | | |
| CROPLAND 2 | 13846.6 | 13445.6 | 13677.0 | 15326.7 | 13776.8 | 2627.1 | 7285.2 | 2188.8 | | | |
| 346 | 1.4 | 1.4 | 1.4 | 1.6 | 1.4 | .3 | .7 | 3.2 | | | |
| CROPLAND 3 | 2282.1 | 2190.0 | 2243.1 | 2594.2 | 2223.6 | 2282.1 | 2282.1 | 738.0 | | | |
| 346 | 3.1 | 3.0 | 3.1 | 3.5 | 3.0 | 3.1 | 3.1 | 3.1 | | | |
| CROPLAND 4 | 1729.8 | 1729.8 | 1707.3 | 1922.6 | 1715.5 | 910.7 | 910.7 | 4240.3 | | | |
| 346 | .4 | .4 | .4 | .5 | .4 | .2 | .2 | 0.0 | | | |
| CROPLAND 5 | 178.2 | 178.2 | 176.0 | 197.2 | 177.3 | 178.2 | 178.2 | 360.0 | | | |
| 345 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | 0.0 | | | |
| CROPLAND 10 | 339.5 | 78.0 | 333.6 | 392.8 | 333.6 | 80.9 | 203.3 | 20.0 | | | |
| 346 | 17.0 | 3.5 | 16.7 | 19.6 | 16.7 | 4.0 | 10.2 | 17.0 | | | |
| CROPLAND | 48825.5 | 33841.7 | 48167.5 | 54430.9 | 48333.4 | 11945.2 | 26955.4 | 20769.9 | | | |
| VINEYARDS AND ORCH. | 301.5 | 301.5 (TONS) | 300.0 (ACRES) | 300.0 (ACRES) | 600.0 (ACRES) | | | | | | |
| GRASSLAND AND PASTURE | 1351.3 | 1351.3 (TONS) | OTHER LAND | 44189.5 (ACRES) | | | | | | | |
| WOODLAND | 594.1 | 594.1 (TONS) | MISSING DATA | 204186.4 (ACRES) | | | | | | | |
| ANNUAL TOTAL POTENTIAL GROSS EROSION | 230038.3 | 162548.6 | 227074.6 | 255285.9 | 227421.8 | 63923.5 | 131531.3 | 262456.1 | | | |
| PERCENT REDUCTION: | 0.0 | 29.3 | 1.3 | -11.0 | 1.0 | 72.2 | 42.5 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

Basin: Huron River S. Metropolitan Pkwy. 3rd County: 35 Ingham, Michigan

| Land Use | Existing Gross Erosion (tons/acre) | Existing Pot. Reduce Soil Spring Loss to Plogging Only (tons/acre) | Fall Plogging Only (tons/acre) | Winter Cover Crop (tons/acre) | Maximum Reduction Tillage (tons/acre) | Reduced Tillage Chisel Plow Area (tons/acre) | Soil Mgmt. Group Land Area (acres) | Existing Soil Loss Factor (acres) |
|---------------------------------------|------------------------------------|--|--------------------------------|-------------------------------|---------------------------------------|--|------------------------------------|-----------------------------------|
| CROPLAND 1 | 666.6 | 659.2 | 755.5 | 466.6 | 192.6 | 549.1 | 355.9 | 0.0 |
| 346 | 1.9 | 1.9 | 2.1 | 1.9 | .5 | 1.5 | 1.5 | 0.0 |
| CROPLAND 2 | 246.7 | 243.9 | 279.6 | 246.7 | 71.3 | 292.9 | 533.7 | 0.0 |
| 346 | .5 | .5 | .5 | .5 | .1 | .4 | .4 | 0.0 |
| CROPLAND 4 | 19.7 | 19.5 | 22.3 | 19.7 | 16.2 | 16.2 | 89.0 | 0.0 |
| 346 | .2 | .2 | .3 | .2 | .2 | .2 | .2 | 0.0 |
| CROPLAND | 933.0 | 922.6 | 1057.4 | 933.0 | 280.1 | 767.1 | 978.5 | |
| | 1.0 | .9 | 1.1 | 1.0 | .3 | .9 | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (tons) | 0.0 (acres) | 0.0 (acres) | 0.0 (acres) | | | |
| | 0.0 | 0.0 (acres) | 0.0 (acres) | | | | | |
| | 0.00 | 0.00 (tons/acre) | | | | | | |
| GRASSLAND AND PASTURE | 1.9 | 1.9 (tons) | 1.9 (acres) | 1.9 (acres) | 1.9 (acres) | | | |
| | 89.0 | 89.0 (acres) | 89.0 (acres) | 89.0 (acres) | 89.0 (acres) | | | |
| | .02 | .02 (tons/acre) | | | | | | |
| WOODLAND | 1.6 | 1.6 (tons) | 1.6 (acres) | 1.6 (acres) | 1.6 (acres) | | | |
| | 89.0 | 89.0 (acres) | 89.0 (acres) | 89.0 (acres) | 89.0 (acres) | | | |
| | .02 | .02 (tons/acre) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 1008.6 | 997.4 | 1142.5 | 1008.6 | 305.4 | 829.9 | 1245.5 | |
| | .8 | .8 | .9 | .8 | .2 | .7 | | |
| PERCENT REDUCTION: | 0.0 | 0.0 | -13.3 | 0.0 | 69.7 | 17.7 | | |
| | | 1.1 | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

Basin: MUMON RIVER S. METROPOLITAN PHLY. MI COUNTY: 36 LIVINGSTON, MICHIGAN

| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING ONLY AND EXISTING ONLY (TNS) | FALL PLOWING ONLY (TNS) | WINTER COVER CROP (TNS) | MAXIMUM REDUCTION TILLAGE (TNS) | REDUCED TILLAGE: CHISEL PLOJ AREA (TNS) | SOIL MENT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
|---------------------------------------|--|---|-------------------------|---------------------------------|---|------------------------------------|---------------------------------------|
| 1. CROPLAND 1 546 | 17422.2 1.9 | 17422.2 1.9 | 17422.2 2.1 | 5035.1 1.5 | 16320.3 1.5 | 3209.3 | 0.0 |
| 2. CROPLAND 2 546 | 420.7 0.3 | 416.0 0.3 | 476.7 0.4 | 121.5 0.1 | 345.9 0.1 | 1236.0 | 0.0 |
| 3. CROPLAND 4 546 | 156.8 0.2 | 155.0 0.2 | 177.7 0.3 | 129.9 0.2 | 129.9 0.2 | 538.0 | 0.0 |
| 5. CROPLAND 5 546 | 212.8 0.1 | 210.5 0.1 | 241.2 0.1 | 212.8 0.1 | 212.8 0.1 | 1908.0 | 0.0 |
| 10. CROPLAND 10 546 | 3504.0 17.5 | 3467.1 17.3 | 3973.5 19.9 | 1012.9 5.1 | 2882.7 19.4 | 288.0 | 200.0 17.5 |
| 1. CROPLAND 1 546 | 21710.5 1.6 | 21477.3 1.5 | 24614.3 1.9 | 6509.2 1.6 | 17893.2 1.6 | 13249.3 | 0.0 |
| VINEYARDS AND GRCH. | 207.0 148.0 0.8 | 79.4 (TNS) 140.0 (ACRES) 0.57 (TNS/ACRE) | 2340.0 (ACRES) | | | | |
| 3. PASTURE AND PASTURE | 914.8 13019.9 0.07 | 914.8 (TNS) 13019.9 (ACRES) 0.07 (TNS/ACRE) | 22625.6 (ACRES) | | | | |
| 4. PASTURE | 639.7 5850.0 0.11 | 639.7 (TNS) 5850.0 (ACRES) 0.11 (TNS/ACRE) | 56625.0 (ACRES) | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 64694.0 57623.9 0.6 | 64029.4 72672.7 0.6 | 64694.0 22788.1 0.3 | 54159.7 0.5 | | 81884.8 | |
| PERCENT REDUCTION: | 0.0 10.9 1.1 | -12.3 0.0 | 64.8 16.3 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: HURON RIVER S. METROPOLITAN PKRY. MI COUNTY: 37 OAKLAND, MICHIGAN

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLUING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WGMT. 232P LAND (ACRES) | EXISTING SOIL LOSS > T. FACTOR (TONS/ACRE) |
|---------------------------------------|--|---|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------|--|
| CROPLAND 1 | 1327.8 | 1327.8 | 1503.7 | 1327.8 | 438.6 | 989.3 | 1310.3 | 9.0 |
| SWG | 1.0 | 1.0 | 1.0 | 1.0 | .3 | .4 | 1.0 | 0.0 |
| CROPLAND 2 | 19.6 | 19.6 | 23.5 | 19.6 | 6.4 | 14.5 | 90.0 | 0.0 |
| SWG | .2 | .2 | .3 | .2 | .1 | .2 | 1.0 | 0.0 |
| CROPLAND 5 | .5 | .5 | .7 | .5 | .5 | .3 | 10.0 | 0.0 |
| SWG | .0 | .0 | .1 | .0 | .0 | .0 | 1.0 | 0.0 |
| CROPLAND 10 | 110.6 | 50.0 | 104.6 | 110.6 | 35.2 | 82.3 | 10.3 | 10.0 |
| SWG | 11.1 | 5.0 | 13.3 | 11.1 | 3.6 | 9.3 | 11.1 | 11.1 |
| CROPLAND | 1458.5 | 1397.9 | 1750.3 | 1458.5 | 477.7 | 1087.4 | 1420.0 | |
| SWG | 1.0 | 1.0 | 1.2 | 1.0 | .3 | .4 | 1.0 | |
| VINEYARDS AND ORCH. | 30.1 | 30.1 | 240.0 | 240.0 | | | | |
| SWG | .60 | .60 | .60 | .60 | | | | |
| GRASSLAND AND PASTURE | 278.3 | 278.3 | 3220.0 | 3220.0 | | | | |
| SWG | .07 | .07 | .07 | .07 | | | | |
| WOODLAND | 191.0 | 191.0 | 94098.5 | 94098.5 | | | | |
| SWG | .16 | .16 | .16 | .16 | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 28617.2 | 27731.5 | 32882.2 | 28617.2 | 14281.6 | 23193.1 | 180998.5 | |
| PERCENT REDUCTION: | 0.0 | 3.1 | -14.9 | 0.0 | 50.1 | 13.0 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

S. METROPOLITAN PARK-AMI COUNTY: 40 HASHTENAW, MICHIGAN

| BASIN: MURON RIVER | | | | | | | | | | | |
|---------------------------------------|---|--------------------------|--------------------------|----------------------------------|--|------------------------------------|---------------------------------------|---------|---------|-----|--|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | | | | |
| | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | | | | |
| 100PLAND 1 | 284953.7 | 181988.7 | 201489.7 | 233027.1 | 199737.6 | 40297.9 | 108629.2 | 55739.2 | 12299.9 | 4.8 | |
| 346 | 3.7 | 3.3 | 3.6 | 4.2 | 3.6 | .7 | 1.9 | | | | |
| 200PLAND 2 | 16645.8 | 16361.3 | 18922.2 | 16219.0 | 3272.3 | 8820.3 | 13349.3 | 0.0 | 0.0 | | |
| 346 | 1.1 | 1.1 | 1.2 | 1.1 | .2 | .5 | | | | | |
| 200PLAND 3 | 3667.5 | 3480.0 | 3604.8 | 5573.4 | 3667.5 | 3667.5 | 1160.0 | 1160.0 | 3.2 | | |
| 346 | 3.2 | 3.0 | 3.1 | 3.6 | 3.2 | 3.2 | | | | | |
| 200PLAND 4 | 3085.0 | 3085.0 | 3506.3 | 3005.9 | 1634.8 | 1634.3 | 9339.3 | 0.0 | 0.0 | | |
| 346 | .3 | .3 | .4 | .3 | .2 | .2 | | | | | |
| 200PLAND 5 | 880.5 | 880.5 | 1000.9 | 857.9 | 980.5 | 980.3 | 6629.3 | 0.0 | 0.0 | | |
| 346 | .1 | .1 | .2 | .1 | .1 | .1 | | | | | |
| 200PLAND 10 | 25805.7 | 5810.0 | 25344.6 | 29334.7 | 5072.9 | 13674.9 | 1510.0 | 1510.0 | 17.1 | | |
| 346 | 17.1 | 3.8 | 16.5 | 19.4 | 3.4 | 9.1 | | | | | |
| 200PLAND | 255078.2 | 211898.0 | 250718.1 | 289960.8 | 248537.9 | 137507.7 | 83728.3 | | | | |
| 346 | 2.8 | 2.4 | 2.8 | 3.2 | 2.8 | 1.5 | | | | | |
| VINEYARDS AND ORCH. | 802.9 | 430.4 (TNS) | 430.4 (TNS) | 3350.0 (ACRES) | | | | | | | |
| 346 | 1.51 | .81 (TNS/ACRE) | .81 (TNS/ACRE) | | | | | | | | |
| GRASSLAND AND PASTURE | 3543.7 | 3543.7 (TNS) | 72054.7 (ACRES) | | | | | | | | |
| 346 | .10 | .10 (TNS/ACRE) | | | | | | | | | |
| WOODLAND | 4161.1 | 4161.1 (TNS) | MISSING DATA | 22519.7 (ACRES) | | | | | | | |
| 346 | .19 | .19 (TNS/ACRE) | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 303623.3 | 253875.0 | 296600.9 | 342604.4 | 296304.6 | 167964.0 | 170778.0 | | | | |
| PERCENT REDUCTION: | 8.0 | 16.4 | 1.7 | -13.2 | 2.5 | 76.0 | 99.7 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

Basin: Huron River S. METROPOLITAN PARKWAY COUNTY: 41 WAYNE, MICHIGAN

| LAND USE | EXISTING POT. REDUCED | SOIL SPRING | FALL | WINTER | MAXIMUM | REDUCED | SOIL MGMT. | EXISTING |
|---------------------------------------|-----------------------|--------------------|--------------|----------------|-------------|------------------|------------|-------------|
| | GROSS | LOSS TO T. PLOWING | PLOWING | COVER | REDUCTION | TILLAGE: | 3RDY LAND | SOIL LOSS |
| | EROSION | AND EXISTING ONLY | ONLY | CROP | TILLAGE | CHISEL PLOW AREA | | > T FACTOR |
| | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (ACRES) | (ACRES) |
| | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | | (TONS/ACRE) |
| CROPLAND 1 | 1423.6 | 1423.6 | 1407.8 | 1423.6 | 267.4 | 747.2 | 1150.0 | 0.0 |
| 346 | 1.2 | 1.2 | 1.2 | 1.2 | .2 | .5 | | 0.0 |
| CROPLAND 2 | 2988.4 | 2933.7 | 2947.5 | 2980.4 | 559.9 | 1564.3 | 4039.9 | 190.0 |
| 346 | .7 | .7 | .7 | .7 | .1 | .1 | | 3.2 |
| CROPLAND 4 | 701.1 | 701.1 | 693.4 | 701.1 | 368.0 | 368.0 | 1420.0 | 0.0 |
| 346 | .5 | .5 | .5 | .5 | .3 | .3 | | 0.0 |
| CROPLAND 5 | 17.1 | 17.1 | 16.9 | 17.1 | 17.1 | 17.1 | 30.0 | 0.0 |
| 346 | .6 | .6 | .6 | .6 | .6 | .6 | | 0.0 |
| CROPLAND 6 | 5122.2 | 5075.5 | 5065.4 | 5122.2 | 1212.4 | 2695.5 | 5549.9 | |
| 346 | .8 | .8 | .8 | .8 | .2 | .4 | | |
| VINEYARDS AND ORCH. | 2.5 | 2.5 (TONS) | JATER | 370.0 (ACRES) | | | | |
| | 10.0 | 10.0 (ACRES) | AREA ONLY | | | | | |
| | .25 | .25 (TONS/ACRE) | | | | | | |
| GRASSLAND AND PASTURE | 76.1 | 76.1 (TONS) | OTHER LAND | 6206.0 (ACRES) | | | | |
| | 4750.0 | 4750.0 (ACRES) | JSE AREA | | | | | |
| | .02 | .02 (TONS/ACRE) | | | | | | |
| WOODLAND | 24.4 | 24.4 (TONS) | MISSING DATA | 2160.0 (ACRES) | | | | |
| | 1200.0 | 1200.0 (ACRES) | | | | | | |
| | .02 | .02 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 6120.2 | 6065.5 | 6054.0 | 6716.9 | 1540.7 | 3279.2 | 14769.9 | |
| | .4 | .4 | .4 | .5 | .1 | .2 | | |
| PERCENT REDUCTION: | 0.0 | .9 | 1.1 | -9.7 | 0.0 | 74.8 | 46.4 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

3434: HURON RIVER S. METROPOLITAN PHRY-MI COUNTY: 62 ALL IN BASIN

| LAND USE | EXISTING POT-REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MBMT. GROUP LAND TILLAGE AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
|---------------------------------------|--|--------------------------|--------------------------|----------------------------------|--|--|---------------------------------------|
| CROPLAND 1 | 225833.9 | 202828.9 | 222089.0 | 256686.2 | 220577.6 | 46225.6 | 12299.9 |
| | 3.3 | 3.0 | 3.3 | 3.3 | 3.3 | 3.3 | 4.8 |
| CROPLAND 2 | 20313.2 | 20266.5 | 19987.3 | 22970.9 | 19886.4 | 4031.3 | 199.0 |
| | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 3.2 |
| CROPLAND 3 | 3667.5 | 3480.0 | 3604.8 | 4169.0 | 3733.4 | 3667.5 | 1168.0 |
| | 3.2 | 3.0 | 3.1 | 3.6 | 3.1 | 3.2 | 3.2 |
| CROPLAND 4 | 3962.6 | 3962.6 | 3900.1 | 4477.7 | 3883.5 | 2147.9 | 11478.9 |
| | 3.3 | 3.3 | 3.3 | 3.4 | 3.3 | 3.2 | 0.0 |
| CROPLAND 5 | 1111.0 | 1111.0 | 1093.4 | 1261.6 | 1088.4 | 1111.0 | 8569.9 |
| | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 |
| CROPLAND 6 | 29422.4 | 6000.0 | 28940.3 | 33441.0 | 28760.7 | 6122.0 | 1720.0 |
| | 17.1 | 4.0 | 16.8 | 19.4 | 16.7 | 3.6 | 17.1 |
| CROPLAND 7 | 284310.6 | 238449.0 | 279615.5 | 523014.3 | 277770.2 | 63305.3 | 159754.1 |
| | 2.5 | 2.1 | 2.5 | 2.9 | 2.5 | 2.5 | 1.4 |
| VINEYARDS AND ORCH. | 1042.6 | 542.5 (TONS) | WATER AREA ONLY | | 6300.6 (ACRES) | | |
| | 1.43 | 730.0 (ACRES) | | | | | |
| GRASSLAND AND PASTURE | 4814.8 | 4814.8 (TONS) | OTHER LAND USE AREA | | 104207.2 (ACRES) | | |
| | 58408.4 | 58408.4 (ACRES) | | | | | |
| | .08 | .08 (TONS/ACRE) | | | | | |
| WOODLAND | 5017.8 | 5017.8 (TONS) | MISSING DATA | | 175482.1 (ACRES) | | |
| | 30028.7 | 30028.7 (ACRES) | | | | | |
| | .17 | .17 (TONS/ACRE) | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 552647.5 | 466785.2 | 543657.3 | 625108.6 | 540402.5 | 134880.9 | 319452.5 |
| | 1.5 | 1.2 | 1.4 | 1.7 | 1.4 | 1.4 | .8 |
| PERCENT REDUCTION: | 0.0 | 15.5 | 1.6 | -13.1 | 2.2 | 74.9 | 42.2 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: RIVER RAISIN | | MICHIGAN | | COUNTY: 01 KNOX | | MICHIGAN (TMC001) | | TOWNSHIP: 0 | | | |
|---------------------------------------|--|---|---------------------------------|---------------------------------|-------------------------------|---------------------------------------|--------------------------------------|--------------------|------------------------------|--------------------------------|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | SOIL PLOUGHING ONLY (TONS/ACRE) | FALL PLOUGHING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM TILLAGE REDUCTION (TONS/ACRE) | TILLAGE CHISEL PLOW AREA (TONS/ACRE) | GROUP LAND (ACRES) | SOIL LOSS FACTOR (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | |
| | | | | | | | | | | | |
| 300PLAND 3 | 71.3 | 30.0 | 67.5 | 71.9 | 71.3 | 71.3 | 71.3 | 10.0 | 10.0 | 10.0 | |
| 300 | 7.1 | 3.0 | 6.8 | 7.2 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | |
| 300PLAND | 71.3 | 30.0 | 67.5 | 71.9 | 71.3 | 71.3 | 71.3 | 10.0 | 10.0 | 10.0 | |
| 300 | 7.1 | 3.0 | 6.8 | 7.2 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | |
| BRASSLAND AND PASTURE | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | |
| WOODLAND | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | |
| | 408391.4 | 171833.7 | 387198.6 | 411828.1 | 408391.4 | 408391.4 | 408391.4 | 57277.9 | 57277.9 | 57277.9 | |
| | 7.1 | 3.0 | 6.8 | 7.2 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | |
| PERCENT REDUCTION: | | | | | | | | | | | |
| | 0.0 | 57.9 | 5.2 | -0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 39 JACKSON, MICHIGAN

WATER RESOURCES

LAND USE

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) |
|---------------------------------------|--|--|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---|
| CROPLAND 1 | 21277.0 | 18952.6 | 20995.2 | 21277.0 | 3084.5 | 10560.0 | 4625.0 | 2660.7 |
| SW 1 | 4.6 | 4.1 | 4.5 | 4.6 | .8 | 2.3 | | 4.8 |
| CROPLAND 2 | 481.9 | 481.9 | 475.5 | 481.9 | 86.2 | 239.4 | 711.7 | 0.0 |
| SW 2 | .7 | .7 | .7 | .7 | .1 | .3 | | 0.0 |
| CROPLAND 4 | 71.3 | 71.3 | 70.4 | 71.3 | 35.4 | 35.4 | 89.0 | 0.0 |
| SW 4 | .8 | .8 | .8 | .8 | .4 | .4 | | 0.0 |
| CROPLAND 5 | 136.2 | 136.2 | 134.4 | 136.2 | 136.2 | 136.2 | 800.6 | 0.0 |
| SW 5 | .2 | .2 | .2 | .2 | .2 | .2 | | 0.0 |
| CROPLAND 10 | 3219.0 | 622.7 | 3176.3 | 3219.0 | 575.6 | 1598.0 | 177.9 | 177.9 |
| SW 10 | 18.1 | 3.5 | 17.9 | 18.1 | 3.2 | 9.0 | | 18.1 |
| CROPLAND | 25185.4 | 20264.7 | 24851.0 | 25185.4 | 6637.9 | 12577.3 | 5405.0 | |
| SW | 3.9 | 3.2 | 3.9 | 3.9 | .7 | 2.0 | | |
| WETLANDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 533.7 (ACRES) | | | | |
| SW | 0.0 | 0.0 (ACRES) | | | | | | |
| WETLANDS AND PASTURE | 146.1 | 146.1 (TONS) | OTHER LAND | 1779.2 (ACRES) | | | | |
| SW | 2312.9 | 2312.9 (ACRES) | USE AREA | | | | | |
| SW | .06 | .06 (TONS/ACRE) | | | | | | |
| WOODLAND | 138.5 | 138.5 (TONS) | MISSING DATA | 36472.7 (ACRES) | | | | |
| SW | 2046.0 | 2046.0 (ACRES) | | | | | | |
| SW | .07 | .07 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 111773.3 | 90179.1 | 110309.3 | 124216.6 | 111773.3 | 21602.0 | 56445.7 | 47236.6 |
| PERCENT REDUCTION: | 2.4 | 1.9 | 2.3 | 2.6 | .5 | 1.2 | | |
| | 0.0 | .19.3 | 1.3 | -11.1 | 0.0 | 80.7 | 99.5 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: PEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| COUNTY: AG WASHINGTON, MICHIGAN | | | | | | | | | |
|---------------------------------------|--|----------------------------------|----------------------------------|--------------------------|------------------------|-------------------------------|---|-------------------------|--|
| BASIN: PIVER RAISIN | | MOVING | | FALL | | WINTER | | MAXIMUM | |
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO PLOWING ONLY (TONS/ACRE) | LOSS TO PLOWING ONLY (TONS/ACRE) | PLOWING ONLY (TONS/ACRE) | COVER CROP (TONS/ACRE) | REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 1" FACTOR (TONS/ACRE) |
| 1 | 224595.2 | 146425.1 | 220756.0 | 255309.2 | 210836.4 | 44151.2 | 119016.2 | 57519.6 | 27419.7 |
| 2 | 26682.2 | 26682.2 | 26226.1 | 33331.1 | 25996.1 | 5245.2 | 14139.3 | 17209.9 | 0.0 |
| 3 | 4746.2 | 4746.2 | 4665.0 | 5395.2 | 4624.5 | 4746.2 | 4746.2 | 1779.0 | 0.0 |
| 4 | 3366.2 | 3366.2 | 3308.7 | 3426.3 | 3279.9 | 1783.8 | 1783.8 | 10099.9 | 0.0 |
| 5 | 742.8 | 742.8 | 730.1 | 844.4 | 723.7 | 742.8 | 742.8 | 3930.0 | 9.0 |
| 10 | 35746.2 | 6900.0 | 35135.1 | 40534.3 | 34829.6 | 7027.0 | 18942.4 | 1860.0 | 1860.0 |
| 10 | 19.2 | 3.7 | 18.9 | 21.8 | 18.7 | 3.8 | 10.2 | 19.2 | 19.2 |
| 10 | 295478.8 | 188862.5 | 290421.0 | 336340.9 | 288292.2 | 63696.2 | 159370.7 | 85389.4 | 19.2 |
| 10 | 3.5 | 2.2 | 3.4 | 3.9 | 3.4 | 0.7 | 1.3 | 1.3 | 1.3 |
| VINEYARDS AND ORCH. | 247.0 | 233.8 (TONS) | 247.0 | 247.0 | 1440.0 (ACRES) | | | | |
| BRASSLAND AND PASTURE | 878.4 | 878.4 (TONS) | 878.4 (TONS) | 878.4 (TONS) | 24609.8 (ACRES) | | | | |
| 4000LAND | 1357.9 | 1357.9 (TONS) | 1357.9 (TONS) | 1357.9 (TONS) | 8999.9 (ACRES) | | | | |
| 10 | 9049.9 | 9049.9 (ACRES) | 9049.9 (ACRES) | 9049.9 (ACRES) | 8999.9 (ACRES) | | | | |
| 10 | 15 | 15 (TONS/ACRE) | 15 (TONS/ACRE) | 15 (TONS/ACRE) | 8999.9 (ACRES) | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | |
| 324059.5 | 207626.1 | 318566.1 | 368006.5 | 315819.5 | 71879.4 | 173794.2 | 112359.1 | 112359.1 | 112359.1 |
| 2.9 | 1.6 | 2.8 | 3.3 | 2.8 | 0.6 | 1.5 | 1.5 | 1.5 | 1.5 |
| PERCENT REDUCTION: | 0.0 | 35.9 | 1.7 | -13.6 | 2.5 | 77.4 | 43.9 | 43.9 | 43.9 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: RIVER RAISIN | | | MONROE, MI | | | COUNTY: 44 LENAWEE, MICHIGAN | | | | | | | | | |
|---------------------------------------|-------------------------------|---|---------------------------------|--------------------------|--------------------------|----------------------------------|--|------------------------------------|---------------------------------------|--|--|--|--|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS) | POT. LOSS TO T. AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL P-34 AREA (TONS) | SOIL MGMT. B34UP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | | | | | | |
| 210PLAND 1 | 1116226.0 | 280134.1 | 1061997.0 | 1170456.0 | 1075594.0 | 153550.5 | 474509.3 | 77568.1 | 77660.1 | | | | | | |
| 546 | 14.4 | 3.7 | 13.7 | 15.1 | 13.8 | 2.0 | 6.1 | | 14.4 | | | | | | |
| 210PLAND 2 | 362152.3 | 196369.8 | 344557.9 | 379746.8 | 348956.4 | 49450.9 | 153951.4 | 91359.7 | 45546.4 | | | | | | |
| 546 | 4.0 | 2.1 | 3.8 | 4.2 | 3.8 | .5 | 1.7 | | 6.6 | | | | | | |
| 210PLAND 4 | 96462.6 | 96462.6 | 91776.2 | 101149.1 | 92947.8 | 41006.4 | 41005.4 | 92515.3 | 0.0 | | | | | | |
| 546 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .4 | .4 | | 0.0 | | | | | | |
| 210PLAND 5 | 8513.4 | 8513.4 | 8099.8 | 8927.0 | 8203.2 | 8513.4 | 8513.4 | 11386.6 | 0.0 | | | | | | |
| 546 | .7 | .7 | .7 | .8 | .7 | .7 | .7 | | 0.0 | | | | | | |
| 210PLAND 10 | 43357.7 | 6227.0 | 60279.6 | 66435.7 | 61049.1 | 8721.3 | 26933.4 | 1334.4 | 1334.4 | | | | | | |
| 546 | 47.5 | 4.7 | 45.2 | 49.4 | 45.8 | 6.5 | 20.2 | | 47.5 | | | | | | |
| 210PLAND | 1446712.0 | 595706.9 | 1566710.5 | 1726714.5 | 1586710.5 | 261742.5 | 704913.3 | 274256.5 | | | | | | | |
| | 6.0 | 2.2 | 5.7 | 6.3 | 5.8 | 1.0 | 2.5 | | | | | | | | |
| VINEYARDS AND ORCH. | 426.0 | 387.4 (TONS) | JATER AREA ONLY | 9073.7 (ACRES) | | | | | | | | | | | |
| | 355.8 | 355.9 (ACRES) | | | | | | | | | | | | | |
| | 1.20 | 1.09 (TONS/ACRE) | | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 3002.9 | 3002.9 (TONS) | OTHER LAND USE AREA | 42373.6 (ACRES) | | | | | | | | | | | |
| | 23336.6 | 23336.6 (ACRES) | | | | | | | | | | | | | |
| | .13 | .13 (TONS/ACRE) | | | | | | | | | | | | | |
| WOODLAND | 5038.2 | 5038.2 (TONS) | MISSING DATA | 5426.4 (ACRES) | | | | | | | | | | | |
| | 35938.9 | 35938.9 (ACRES) | | | | | | | | | | | | | |
| | .14 | .14 (TONS/ACRE) | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 1682079.3 | 613993.1 | 1600777.6 | 1763382.2 | 1621102.7 | 274631.1 | 724973.0 | 333314.3 | | | | | | | |
| | 5.0 | 1.8 | 4.7 | 5.2 | 4.4 | .8 | 2.1 | | | | | | | | |
| PERCENT REDUCTION: | 0.0 | 63.5 | 4.4 | -4.8 | 3.6 | 83.7 | 56.9 | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| 3151V: RIVER RAISIN | | MONROE, MI | | COUNTY: 47 FULTON, OHIO | | | |
|---------------------------------------|--|--|--|--|--|--|--|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS) (TONS/ACRE) | FALL PLOWING ONLY (TONS) (TONS/ACRE) | WINTER COVER CROP (TONS) (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS) (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) (TONS/ACRE) | SOIL REENT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS BY FACTOR (ACRES) (TONS/ACRE) |
| ROADLAND | 216.7 .8 | 216.7 .8 | 205.5 .9 | 227.2 .9 | 201.0 .8 | 266.9 .3 | 0.0 0.0 |
| VINEYARDS AND ORCH. | 0.0 0.0 0.00 | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 0.0 0.0 0.00 | 0.0 (ACRES) | 0.0 0.0 0.0 | 266.9 .3 | |
| GRASSLAND AND PASTURE | 0.0 0.0 0.00 | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 0.0 0.0 0.00 | 0.0 (ACRES) | 0.0 0.0 0.0 | 266.9 .3 | |
| WOODLAND | 0.0 0.0 0.00 | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 0.0 0.0 0.00 | 0.0 (ACRES) | 0.0 0.0 0.0 | 266.9 .3 | |
| JANUARY TOTAL POTENTIAL GROSS EROSION | | | | | | | |
| 216.7 | 216.7 | 205.5 | 227.2 | 201.0 | 82.9 | 266.9 | |
| PERCENT REDUCTION: | 0.0 | 5.2 | -4.8 | 7.2 | 61.7 | 61.7 | |

LAND EROSION MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| COUNTY: 62 ALL IN BASIN | | | | | | | | | |
|---------------------------------------|--|---|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---|------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | |
| 200PLAND 1 | 1372781.0 | 460195.0 | 1314844.0 | 1461859.0 | 203681.6 | 610113.7 | 137184.4 | 107748.6 | 11.9 |
| 546 | 18.0 | 3.4 | 9.6 | 10.7 | 1.5 | 4.4 | | | |
| 200PLAND 2 | 389516.1 | 223733.6 | 371452.6 | 375636.1 | 55223.1 | 168443.1 | 183567.3 | 45546.4 | 6.6 |
| 546 | 3.6 | 2.0 | 3.4 | 3.7 | .5 | 1.3 | | | |
| 200PLAND 3 | 4017.4 | 4776.2 | 4732.7 | 5467.1 | 4817.4 | 4817.4 | 1788.8 | 10.0 | 7.1 |
| 546 | 2.7 | 2.7 | 2.7 | 3.1 | 2.6 | 2.7 | | | |
| 200PLAND 4 | 180116.0 | 180116.0 | 95360.7 | 105282.1 | 96500.0 | 42908.6 | 103688.4 | 0.0 | 0.0 |
| 546 | 1.0 | 1.0 | .9 | 1.0 | .9 | .4 | | | |
| 200PLAND 5 | 9685.2 | 9685.2 | 9170.0 | 10155.6 | 9276.0 | 9685.2 | 16828.9 | 0.0 | 0.0 |
| 546 | .6 | .6 | .5 | .6 | .6 | .5 | | | |
| 200PLAND 6 | 102322.0 | 13749.7 | 98591.1 | 110651.6 | 99097.7 | 16323.9 | 3372.3 | 3372.3 | 30.3 |
| 546 | 38.3 | 4.1 | 29.2 | 32.8 | 29.4 | 14.1 | | | |
| 200PLAND 7 | 1979159.3 | 816176.5 | 1893351.1 | 2103447.6 | 1911555.5 | 883367.7 | 371913.0 | | |
| 546 | 5.3 | 2.2 | 5.1 | 5.7 | 5.1 | 2.4 | | | |
| VINEYARDS AND ORCH. | 693.7 | 641.9 (TONS) | JATER AREA ONLY | 11670.1 (ACRES) | | | | | |
| 546 | 744.8 | 744.8 (ACRES) | | | | | | | |
| | .93 | .86 (TONS/ACRE) | | | | | | | |
| PASTURE AND PASTURE | 4187.1 | 4187.1 (TONS) | OTHER LAND USE AREA | 71224.5 (ACRES) | | | | | |
| 546 | 36849.6 | 36849.6 (ACRES) | | | | | | | |
| | .11 | .11 (TONS/ACRE) | | | | | | | |
| WOODLAND | 6611.6 | 6611.6 (TONS) | MISSING DATA | 108604.7 (ACRES) | | | | | |
| 546 | 49258.8 | 48992.0 (ACRES) | | | | | | | |
| | .13 | .13 (TONS/ACRE) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 2462627.2 | 1024030.6 | 2356469.9 | 2616389.9 | 425543.7 | 1106373.3 | 565570.9 | | |
| 546 | 4.3 | 1.8 | 4.2 | 4.5 | .8 | 2.0 | | | |
| PERCENT REDUCTION: | 8.0 | 58.4 | 4.3 | -6.2 | 3.4 | 82.7 | 53.3 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: PAUMEE RIVER | | WATERVILLE, OH | | | | COUNTY: OS SEPECA, OHIO | | | |
|---------------------------------------|-------------------------------|---------------------------------------|--|--------------------------|--------------------------|----------------------------------|--|---|---------------------------------------|
| LAND USE | EXISTING GROSS EROSION (TONS) | POT. REDUCED AND EXISTING ONLY (TONS) | SOIL SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. GROUP LAND TILLAGE PLOW AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) |
| CROPLAND 1 SWG | 1968.8 5.9 | 1156.5 3.5 | 1469.1 5.6 | 2110.4 6.4 | 1968.8 5.9 | 290.8 .9 | 872.3 2.5 | 333.6 5.9 | 333.6 5.9 |
| CROPLAND 2 SWG | 961.9 3.6 | 801.4 3.0 | 913.2 3.4 | 1035.0 3.9 | 961.9 3.6 | 142.1 .5 | 426.2 1.6 | 266.7 3.8 | 244.6 3.8 |
| CROPLAND 3 SWG | 38.1 1.7 | 36.2 1.7 | 36.2 1.6 | 41.0 1.8 | 39.1 1.7 | 58.1 1.7 | 39.1 1.7 | 22.2 1.7 | 0.0 0.0 |
| CROPLAND 4 SWG | 119.9 .9 | 119.9 .9 | 113.8 .9 | 129.0 1.0 | 119.9 .9 | 53.1 .4 | 53.1 .4 | 133.4 1.7 | 0.0 0.0 |
| CROPLAND 5 SWG | 6.6 .3 | 6.6 .3 | 6.3 .3 | 7.1 .3 | 6.6 .3 | 6.6 .3 | 6.5 .3 | 22.2 1.7 | 0.0 0.0 |
| CROPLAND | 3095.3 4.0 | 2122.5 2.7 | 2938.6 5.9 | 3330.5 4.3 | 3095.3 4.0 | 530.7 .7 | 1396.3 1.8 | 778.3 1.8 | 778.3 1.8 |
| VINEYARDS AND ORCH. | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | JATER AREA ONLY 0.00 (TONS/ACRE) | | 22.2 (ACRES) | | | | |
| GRASSLAND AND PASTURE | 111.2 4.0 | 111.2 (ACRES) 4.0 (TONS) | JATER LAND USE AREA 111.2 (ACRES) 4.0 (TONS) | | 177.9 (ACRES) | | | | |
| WOODLAND | 1.1 44.5 | 1.1 (TONS) 44.5 (ACRES) | MISSING DATA | | 4470.1 (ACRES) | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 17918.0 3.3 | 12290.5 2.3 | 17011.3 3.1 | 19278.9 3.6 | 17918.0 3.3 | 3079.3 .6 | 8887.6 2.6 | 5404.1 1.3 | 5404.1 1.3 |
| PERCENT REDUCTION: | 0.0 | 31.4 | 5.1 | -7.6 | 0.0 | 82.8 | 54.9 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| COUNTY: CO. WOOD, OHIO | | | | | | | | | |
|---------------------------------------|---|--|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---------------------------------------|---|
| WATERVILLE, OH | | | | | | | | | |
| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | REDUCE SOIL LOSS TO Y. AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > Y FACTOR (ACRES) | EXISTING SOIL LOSS > Y FACTOR (TONS/ACRE) |
| CROPLAND 1 | 24121.1 | 18018.9 | 22619.1 | 25053.0 | 22619.1 | 3084.1 | 5821.8 | 296.5 | 296.5 |
| 346 | 4.1 | 3.2 | 3.9 | 4.3 | 3.9 | .5 | 1.7 | 20.5 | 20.5 |
| CROPLAND 2 | 44618.8 | 39918.8 | 41840.3 | 46416.6 | 41840.3 | 5556.9 | 17819.9 | 5199.1 | 5199.1 |
| 346 | 1.8 | 1.6 | 1.7 | 1.9 | 1.7 | .2 | .7 | 4.1 | 4.1 |
| CROPLAND 3 | 6612.4 | 3291.4 | 6200.6 | 6878.8 | 6200.6 | 6612.4 | 1097.1 | 1097.1 | 1097.1 |
| 346 | 6.0 | 3.0 | 5.7 | 6.3 | 5.7 | 6.0 | 6.3 | 6.0 | 6.0 |
| CROPLAND 4 | 8123.3 | 8123.3 | 7617.5 | 8450.6 | 7617.5 | 3243.4 | 7194.0 | 0.0 | 0.0 |
| 346 | 1.1 | 1.1 | 1.0 | 1.2 | 1.0 | .4 | .4 | 0.0 | 0.0 |
| CROPLAND 5 | 1192.6 | 1192.6 | 1118.3 | 1240.6 | 1118.3 | 1192.6 | 889.6 | 0.0 | 0.0 |
| 346 | 1.3 | 1.3 | 1.3 | 1.4 | 1.3 | 1.3 | 1.3 | 0.0 | 0.0 |
| CROPLAND 8 | 37951.6 | 37951.6 | 35588.3 | 39480.8 | 35588.3 | 15152.8 | 34248.8 | 0.0 | 0.0 |
| 346 | 1.1 | 1.1 | 1.0 | 1.2 | 1.0 | .4 | .4 | 0.0 | 0.0 |
| CROPLAND | 122619.8 | 109280.6 | 114984.1 | 127560.4 | 114984.1 | 34762.2 | 53646.3 | 73537.4 | 73537.4 |
| 346 | 1.7 | 1.5 | 1.6 | 1.7 | 1.6 | .5 | .7 | | |
| VINEYARDS AND ORCH. | 1.0 | 1.0 (TONS) | 1.0 (TONS) | 1.0 (TONS) | 978.5 (ACRES) | | | | |
| | 9.9 | 9.9 (ACRES) | 9.9 (ACRES) | 9.9 (ACRES) | | | | | |
| | .10 | .10 (TONS/ACRE) | .10 (TONS/ACRE) | .10 (TONS/ACRE) | | | | | |
| GRASSLAND AND PASTURE | 126.9 | 126.9 (TONS) | 126.9 (TONS) | 126.9 (TONS) | 5347.4 (ACRES) | | | | |
| 346 | 3301.3 | 3301.3 (ACRES) | 3301.3 (ACRES) | 3301.3 (ACRES) | | | | | |
| | .04 | .04 (TONS/ACRE) | .04 (TONS/ACRE) | .04 (TONS/ACRE) | | | | | |
| WOODLAND | 205.3 | 205.3 (TONS) | 205.3 (TONS) | 205.3 (TONS) | 1047.7 (ACRES) | | | | |
| 346 | 3348.9 | 3348.9 (ACRES) | 3348.9 (ACRES) | 3348.9 (ACRES) | | | | | |
| | .06 | .06 (TONS/ACRE) | .06 (TONS/ACRE) | .06 (TONS/ACRE) | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 124557.4 | 111044.2 | 116822.1 | 129562.5 | 116822.1 | 35551.4 | 50688.4 | 81337.2 | 81337.2 |
| PERCENT REDUCTION: | 0.0 | 10.8 | 6.2 | -4.2 | 6.2 | 71.5 | 55.1 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

WATERVILLE, OHIO

COUNTY: 24 LUTAS, OHIO

| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | REDUCE SOIL EROSION (TONS/ACRE) | FALL FLOODING ONLY (TONS/ACRE) | WINTER CROP (TONS/ACRE) | MAXIMUM TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL WASH- GROUP LAND (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) |
|---------------------------------------|---|---------------------------------|--------------------------------|-------------------------|-----------------------------|-----------------------------|-------------------------------|---|
| CROPLAND 1 | 2687.7 | 1213.7 | 2545.1 | 2790.4 | 2596.2 | 368.0 | 1103.7 | 227.3 |
| 346 | 4.3 | 4.2 | 4.9 | 9.7 | 9.1 | 1.3 | 3.3 | 11.4 |
| CROPLAND 2 | 1622.8 | 1622.8 | 1540.3 | 1697.5 | 1579.4 | 223.8 | 671.5 | 9.0 |
| 346 | .9 | .9 | .4 | .3 | .9 | .1 | .4 | 9.0 |
| CROPLAND 3 | 824.8 | 266.9 | 766.9 | 862.7 | 802.7 | 824.8 | 824.8 | 89.0 |
| 346 | 9.3 | 3.0 | 8.6 | 9.7 | 9.0 | 9.3 | 9.3 | 9.3 |
| CROPLAND 4 | 114.7 | 114.7 | 109.5 | 120.0 | 111.7 | 47.5 | 47.5 | 0.0 |
| 346 | 1.1 | 1.1 | 1.0 | 1.1 | 1.0 | .4 | .4 | 9.0 |
| CROPLAND 5 | 362.8 | 362.8 | 346.2 | 379.5 | 353.1 | 362.8 | 362.8 | 0.0 |
| 346 | 1.2 | 1.2 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 | 0.0 |
| CROPLAND 8 | 772.0 | 772.0 | 736.5 | 807.5 | 751.3 | 319.4 | 319.4 | 0.0 |
| 346 | .9 | .9 | .9 | 1.0 | .9 | .4 | .4 | 0.0 |
| CROPLAND | 6384.9 | 4553.0 | 4072.5 | 6657.4 | 6194.4 | 2166.3 | 3329.7 | 3039.3 |
| VINEYARDS AND ORCH. | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 0.0 |
| 346 | .47 | .47 | .47 | .47 | .47 | .47 | .47 | .47 |
| GRASSLAND AND PASTURE | 20.3 | 20.3 | 20.3 | 20.3 | 20.3 | 20.3 | 20.3 | 0.0 |
| 346 | .02 | .02 | .02 | .02 | .02 | .02 | .02 | .02 |
| WOODLAND | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 | 0.0 |
| 346 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 9489.8 | 9059.5 | 9059.5 | 9920.4 | 9238.9 | 3202.7 | 5024.2 | 7967.9 |
| PERCENT REDUCTION: | 0.0 | 31.2 | 4.3 | -4.3 | 2.6 | 65.4 | 47.1 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

303IN: MAUMEE RIVER

WATERVILLE, OH

COUNTY: LU HANCOCK, OHIO

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER (TONS/ACRE) | MAXIMUM TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. SAVJLP LAND (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) |
|---------------------------------------|---|---|-------------------------------|--------------------------|-----------------------------|--|--------------------------------|---------------------------------------|
| CROPLAND 1 | 51593.3 | 44618.9 | 86173.0 | 54799.2 | 86862.4 | 11713.5 | 36882.0 | 12891.4 |
| 545 | 7.1 | 3.4 | 6.7 | 7.4 | 6.7 | 2.9 | 2.9 | 7.3 |
| CROPLAND 2 | 422843.9 | 297506.7 | 394905.3 | 434430.2 | 402100.5 | 54251.7 | 170733.1 | 112217.6 |
| 546 | 3.6 | 2.7 | 3.6 | 3.9 | 3.6 | .5 | 1.3 | 6.5 |
| CROPLAND 3 | 6048.6 | 2550.1 | 5706.2 | 6276.9 | 5751.9 | 6048.6 | 6048.6 | 850.0 |
| 546 | 7.1 | 3.0 | 6.7 | 7.4 | 6.8 | 7.1 | 7.1 | 7.1 |
| CROPLAND 4 | 53486.7 | 53486.7 | 56459.1 | 55535.0 | 50862.4 | 21596.5 | 21596.5 | 59772.3 |
| 546 | .9 | .9 | .8 | .9 | .9 | .4 | .4 | 0.0 |
| CROPLAND 5 | 12230.0 | 11066.8 | 11537.7 | 12691.3 | 11630.0 | 12230.0 | 12230.0 | 8937.9 |
| 546 | 1.4 | 1.2 | 1.3 | 1.4 | 1.3 | 1.4 | 1.4 | 11.5 |
| CROPLAND 8 | 7608.8 | 7608.8 | 7174.1 | 7495.9 | 7235.4 | 3072.2 | 3072.2 | 6479.1 |
| 546 | 1.2 | 1.2 | 1.1 | 1.2 | 1.1 | .5 | .5 | 0.0 |
| CROPLAND 9 | 593561.3 | 416630.0 | 559963.4 | 615959.7 | 564443.2 | 105918.5 | 250562.4 | 201148.2 |
| 546 | 3.6 | 2.1 | 2.8 | 3.1 | 2.8 | .5 | 1.2 | 0.0 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 5737.8 (ACRES) | | | | |
| 33ASSLAND AND PASTURE | 272.5 | 272.5 (TONS) | OTHER LAID USE AREA | 22044.2 (ACRES) | | | | |
| 6375.3 | .04 | .04 (TONS/ACRE) | | | | | | |
| 400DLAND | 1010.1 | 1010.1 (TONS) | MISSING DATA | 2513.1 (ACRES) | | | | |
| 17802.9 | .06 | .06 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 601478.1 | 422573.5 | 567505.9 | 624126.3 | 572335.3 | 111430.2 | 254653.4 | 227445.5 |
| PERCENT REDUCTION: | 0.0 | 29.7 | 5.4 | -3.4 | 4.9 | 81.5 | 57.7 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| 305IN: MAUMEE RIVER | | WATERVILLE, OH | | COUNTY: 11 WYANDOT, OHIO | | | |
|--------------------------------------|--|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|----------------------------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER PROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISPL PLOW AREA (TONS/ACRE) | SOIL REML. SLOPP LAND AREA (ACRES) | EXISTING SLOPP LAND AREA (ACRES) |
| 1 CROPLAND | 24633.5 | 23875.5 | 24338.9 | 3316.0 | 10232.4 | 2591.1 | 2779.9 |
| 2 CROPLAND | 46672.7 | 45236.6 | 44903.8 | 4282.9 | 19187.1 | 11920.1 | 10007.8 |
| 3 CROPLAND | 510.6 | 494.9 | 546.0 | 438.8 | 510.6 | 200.2 | 3.0 |
| 4 CROPLAND | 5057.4 | 4901.8 | 5407.4 | 4940.7 | 2100.8 | 4315.0 | 3.0 |
| 5 CROPLAND | 284.4 | 275.6 | 304.1 | 277.8 | 284.4 | 922.5 | 0.0 |
| 6 CROPLAND | 191.6 | 185.7 | 204.9 | 187.2 | 79.6 | 155.7 | 3.0 |
| 7 CROPLAND | 451.0 | 437.1 | 482.2 | 440.6 | 451.0 | 400.3 | 3.0 |
| 8 CROPLAND | 1.1 | 1.1 | 1.2 | 1.1 | 1.1 | 1.1 | 0.0 |
| 9 CROPLAND | 77801.2 | 75407.2 | 83197.4 | 76075.7 | 35045.2 | 27506.1 | 10007.8 |
| VINEYARDS AND ORCH. | 64.6 | 64.6 | 64.6 | 64.6 | 64.6 | 64.6 | 64.6 |
| GRASSLAND AND PASTURE | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 |
| WOODLAND | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 |
| 5/4WAY TOTAL POTENTIAL GROSS EROSION | 82474.5 | 79981.4 | 84173.7 | 80574.7 | 35118.7 | 25108.2 | 10007.8 |
| PERCENT REDUCTION: | 0.0 | 37.7 | -6.9 | 2.3 | 83.1 | 57.0 | 0.0 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MAURICE RIVER | | | COUNTY: 12 PARADISE, NY | | | | | | | | | |
|---------------------------------------|-------------------------------|---|--------------------------|--------------------------|----------------------------------|--|------------------------------------|--|--|--|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS) | POTENTIAL LOSS TO T. PLOPING AND EXISTING ONLY (TONS) | FALL PLOPING ONLY (TONS) | WINTER COVER ONLY (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T. FACTOR (TONS/ACRE) | | | | |
| CROPLAND 1 | 31461.4 | 21335.2 | 30217.9 | 33326.7 | 4103.7 | 13305.3 | 9273.1 | 400.3 | | | | |
| 546 | 3.0 | 2.6 | 3.7 | 4.0 | .5 | 1.5 | 27.3 | 27.3 | | | | |
| CROPLAND 2 | 45537.0 | 30263.5 | 43745.2 | 48289.4 | 5946.1 | 19279.3 | 10001.3 | 2024.4 | | | | |
| 546 | 2.4 | 2.6 | 2.3 | 2.6 | .3 | 1.3 | 5.6 | 5.6 | | | | |
| CROPLAND 3 | 3466.4 | 3466.4 | 3325.4 | 3671.3 | 3466.4 | 3466.4 | 1534.5 | 0.0 | | | | |
| 546 | 2.3 | 2.3 | 2.2 | 2.4 | 2.3 | 2.3 | 2.3 | 0.0 | | | | |
| CROPLAND 4 | 16457.9 | 16457.9 | 15807.4 | 17433.7 | 15072.5 | 6960.5 | 19214.9 | 0.0 | | | | |
| 546 | .9 | .9 | .6 | .9 | .4 | .4 | .4 | 0.0 | | | | |
| CROPLAND 5 | 3707.7 | 3707.7 | 3561.2 | 3927.5 | 3575.8 | 3707.7 | 3091.3 | 0.0 | | | | |
| 546 | 1.2 | 1.2 | 1.2 | 1.3 | 1.2 | 1.2 | 1.2 | 0.0 | | | | |
| CROPLAND 6 | 2161.3 | 2161.3 | 2075.9 | 2289.4 | 2084.4 | 914.1 | 2201.7 | 0.0 | | | | |
| 546 | 1.0 | 1.0 | .9 | 1.0 | .9 | .4 | .4 | 0.0 | | | | |
| CROPLAND 7 | 102041.7 | 85392.8 | 94777.0 | 106939.3 | 99183.4 | 25098.5 | 53196.3 | | | | | |
| 546 | 1.9 | 1.6 | 1.9 | 2.0 | 1.9 | .5 | .5 | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS/ACRE) | 1223.2 (ACRES) | | | | | | | |
| BRASSLAND AND PASTURE | 19.0 | 19.0 (TONS) | 19.0 (TONS) | 19.0 (TONS) | 5669.5 (ACRES) | | | | | | | |
| 546 | 1000.8 | 1000.8 (ACRES) | 1000.8 (ACRES) | 1000.8 (ACRES) | 5669.5 (ACRES) | | | | | | | |
| WOODLAND | 228.3 | 228.3 (TONS) | 228.3 (TONS) | 228.3 (TONS) | 39946.6 (ACRES) | | | | | | | |
| 546 | 5404.2 | 5404.2 (ACRES) | 5404.2 (ACRES) | 5404.2 (ACRES) | 39946.6 (ACRES) | | | | | | | |
| SUMMARY TOTAL POTENTIAL CROSS EROSION | | | | | | | | | | | | |
| 172251.0 | 143094.4 | 165459.3 | 182438.9 | 42350.2 | 43005.3 | 99588.4 | | | | | | |
| 1.7 | 1.4 | 1.7 | 1.8 | 1.7 | .4 | .3 | | | | | | |
| PERCENT REDUCTION: | | | | | | | | | | | | |
| 8.0 | 16.9 | 3.3 | -5.1 | 3.5 | 75.4 | 53.5 | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : TEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: PAUMEC RIVER | | WATERVILLE, OHIO | | | | | | | | | |
|---------------------------------------|--|---|--------------------------------|--------------------------|---------------------------------------|--|-------------------------------------|---------|-------|--|--|
| | | COUNTY: 15 HENRY, OHIO | | | | | | | | | |
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO FLOODING AND EROSION ONLY (TONS/ACRE) | FALL FLOODING ONLY (TONS/ACRE) | WINTER COVER (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: MISCELLANEOUS PLOW AREA (TONS/ACRE) | SOIL MGMT. SOIL LOSS FACTOR (ACRES) | | | | |
| CROPLAND 1 | 37190.2 | 24071.9 | 34675.6 | 34249.3 | 4499.9 | 14226.1 | 6671.9 | 0003.1 | 6.4 | | |
| SAG | 5.6 | 3.6 | 5.2 | 5.7 | 5.2 | 2.2 | | | | | |
| CROPLAND 2 | 66435.8 | 61943.8 | 61943.8 | 61470.5 | 4934.5 | 25770.5 | 49015.8 | 0.0 | 0.0 | | |
| SAG | 1.4 | 1.4 | 1.1 | 1.4 | 1.3 | 1.5 | | | | | |
| CROPLAND 3 | 46996.0 | 43737.6 | 43218.4 | 43483.9 | 46996.0 | 46996.0 | 14579.2 | 14579.2 | 3.2 | | |
| SAG | 3.2 | 3.0 | 3.0 | 3.3 | 3.2 | 3.2 | | | | | |
| CROPLAND 4 | 8853.8 | 8853.8 | 8255.1 | 8192.1 | 3434.4 | 3434.4 | 7917.2 | 0.0 | 0.0 | | |
| SAG | 1.1 | 1.1 | 1.3 | 1.2 | 1.0 | 1.1 | | | | | |
| CROPLAND 5 | 9916.3 | 6541.2 | 9245.8 | 9175.3 | 9916.3 | 9916.3 | 5110.1 | 266.9 | 15.6 | | |
| SAG | 1.9 | 1.3 | 1.8 | 2.0 | 1.9 | 1.9 | | | | | |
| CROPLAND 6 | 159413.6 | 159413.6 | 148634.7 | 147500.1 | 61836.6 | 61836.6 | 126774.7 | 0.0 | 0.0 | | |
| SAG | 1.3 | 1.3 | 1.2 | 1.3 | 1.2 | 1.3 | | | | | |
| CROPLAND 9 | 7973.1 | 4664.7 | 7434.0 | 7377.2 | 7973.1 | 7973.1 | 3547.3 | 177.9 | 20.6 | | |
| SAG | 2.2 | 1.3 | 2.0 | 2.2 | 2.2 | 2.2 | | | | | |
| CROPLAND 10 | 53795.9 | 889.6 | 52158.4 | 49775.6 | 6599.1 | 20467.4 | 444.8 | 444.8 | 120.9 | | |
| SAG | 120.9 | 2.0 | 112.8 | 124.4 | 14.6 | 45.3 | | | | | |
| CROPLAND | 390574.7 | 314608.2 | 364165.8 | 361386.0 | 149203.9 | 191220.1 | 210160.9 | | | | |
| SAG | 1.8 | 1.5 | 1.7 | 1.2 | 1.7 | 1.7 | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 6652.1 (ACRES) | | | | | | | |
| SAG | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | | | | | | | | |
| GRASSLAND AND PASTURE | 335.8 | 335.8 (TONS) | 335.8 (TONS) | 20934.7 (ACRES) | | | | | | | |
| SAG | 6098.5 | 6098.5 (ACRES) | 6098.5 (ACRES) | | | | | | | | |
| WOODLAND | 1216.6 | 1110.6 (TONS) | 1110.6 (TONS) | 4151.4 (ACRES) | | | | | | | |
| SAG | 12207.0 | 12207.0 (ACRES) | 12207.0 (ACRES) | | | | | | | | |
| SAG | 1.0 | 1.0 (TONS/ACRE) | 1.0 (TONS/ACRE) | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 399129.7 | 321406.6 | 372249.2 | 410447.4 | 153448.5 | 196215.3 | 234617.4 | | | | |
| SAG | 1.7 | 1.4 | 1.6 | 1.7 | 1.6 | 1.6 | | | | | |
| PERCENT REDUCTION: | 0.0 | 19.4 | 6.7 | -2.4 | 7.4 | 51.6 | 50.9 | | | | |

Lake Erie Wastewater Management Study
 Land Management Alternatives: Best Management Practice Scenarios

U.S. Army Corps of Engineers, Buffalo District

| BASIN: MAUMEE RIVER | | WATERVILLE, OH | | COUNTY: ASHTABULA, MICHIGAN | | | | | |
|--------------------------------------|------------------------------------|---|--------------------------|-----------------------------|--------------------------|------------------------|--|------------------------------------|---------------------------------------|
| LAND USE | EXISTING POT. GROSS EROSION (TONS) | POT. REDUCE LOSS TO T. AND EXISTING ONLY (TONS) | SOIL PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. STUDY LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
| CROPLAND 1 | 161287.0 | 161287.0 | 155313.4 | 175223.4 | 161287.0 | 50863.6 | 89603.9 | 66951.5 | 0.0 |
| 345 | 2.4 | 2.4 | 2.3 | 2.6 | 2.4 | .5 | 1.3 | 0.0 | 0.0 |
| CROPLAND 2 | 54090.9 | 54090.9 | 52067.5 | 58765.4 | 54090.9 | 10350.7 | 30950.3 | 23840.7 | 0.0 |
| 346 | 2.3 | 2.3 | 2.2 | 2.5 | 2.3 | .4 | 1.3 | 0.0 | 0.0 |
| CROPLAND 3 | 44703.4 | 37629.2 | 43047.7 | 46566.7 | 44703.4 | 44703.4 | 44703.4 | 12543.1 | 12543.1 |
| 346 | 3.6 | 3.0 | 3.4 | 3.3 | 3.6 | 3.6 | 5.3 | 5.6 | 5.6 |
| CROPLAND 4 | 2751.6 | 2751.6 | 2649.7 | 2989.4 | 2751.6 | 1528.7 | 1528.7 | 4101.0 | 0.0 |
| 346 | .7 | .7 | .6 | .7 | .7 | .4 | .4 | 0.0 | 0.0 |
| CROPLAND 5 | 15499.7 | 15499.7 | 14925.7 | 16839.2 | 15499.7 | 15499.7 | 15499.7 | 27318.1 | 0.0 |
| 346 | .6 | .6 | .5 | .6 | .6 | .6 | .5 | 0.0 | 0.0 |
| CROPLAND 9 | 56.6 | 56.6 | 54.5 | 61.5 | 56.6 | 56.6 | 56.6 | 89.0 | 0.0 |
| 346 | .6 | .6 | .6 | .7 | .6 | .6 | .5 | 0.0 | 0.0 |
| CROPLAND | 278389.2 | 271315.0 | 268078.5 | 302447.6 | 278349.2 | 103002.7 | 181442.7 | 134415.4 | |
| | 2.1 | 2.0 | 2.0 | 2.3 | 2.1 | .8 | 1.3 | | |
| VINEYARDS AND ORCH. | 29.1 (TONS) | 89.0 (ACRES) | AREA ONLY | 7472.5 (ACRES) | | | | | |
| 346 | .33 | .33 (TONS/ACRE) | | | | | | | |
| BRASSLAND AND PASTURE | 474.9 (TONS) | 14411.2 (ACRES) | OTHER LAND USE AREA | 17840.5 (ACRES) | | | | | |
| 346 | .03 | .03 (TONS/ACRE) | | | | | | | |
| WOODLAND | 1860.0 (TONS) | 34960.4 (ACRES) | MISSING DATA | 1968.1 (ACRES) | | | | | |
| 346 | .05 | .05 (TONS/ACRE) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS PROSOM | 276459.5 | 273145.1 | 307958.4 | 283635.5 | 106437.2 | 185674.1 | 185744.1 | | |
| 346 | 1.5 | 1.5 | 1.7 | 1.5 | .6 | 1.0 | | | |
| PERCENT REDUCTION: | 0.0 | 2.5 | 3.7 | -4.6 | 0.6 | 62.5 | 34.3 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MAUMLEE RIVER | | COUNTY: AG LEVANTE, MICHIGAN | | | | | | | | | |
|---------------------------------------|--|---|----------------------------|--------------------------|--------------------------|------------------------|---|---------|------|---------|------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOUGHING AND EXISTING ONLY (TONS) | FALL PLOUGHING ONLY (TONS) | WINTER COVER CROP (TONS) | REDUCTION TILLAGE (TONS) | REDUCED TILLAGE (TONS) | SOIL MOVT. SOIL LOSS > T FACTOR (TONS/ACRE) | | | | |
| CROPLAND 1 | 44441.6 | 114577.6 | 422487.4 | 466075.9 | 422485.9 | 61143.7 | 188949.7 | 35779.4 | 6.1 | 35779.4 | 14.4 |
| SWG | 14.4 | 3.7 | 13.7 | 15.1 | 13.9 | 2.0 | 35779.4 | | | | |
| CROPLAND 2 | 54462.7 | 33715.7 | 56573.8 | 62351.4 | 57296.1 | 8145.1 | 25277.7 | 12098.3 | 2.1 | 7739.3 | 5.3 |
| SWG | 4.9 | 2.8 | 4.7 | 5.2 | 4.7 | .7 | 2.1 | | | | |
| CROPLAND 3 | 437.0 | 266.9 | 415.8 | 458.2 | 421.1 | 437.0 | 437.3 | 89.0 | 4.9 | 89.0 | 4.9 |
| SWG | 4.9 | 3.0 | 4.7 | 5.1 | 4.7 | 4.9 | 4.9 | | | | |
| CROPLAND 4 | 6926.5 | 6926.5 | 6590.0 | 7263.1 | 6674.2 | 2944.5 | 2944.5 | 7650.4 | .4 | 0.0 | 0.0 |
| SWG | .9 | .9 | .9 | .9 | .9 | .4 | .4 | | | | |
| CROPLAND 5 | 2425.3 | 2825.3 | 2444.0 | 2962.6 | 2722.3 | 2925.3 | 2425.3 | 3202.3 | .9 | 0.0 | 0.0 |
| SWG | .9 | .9 | .8 | .9 | .9 | .9 | .9 | | | | |
| CROPLAND 10 | 14768.3 | 711.7 | 14850.8 | 15485.8 | 14230.2 | 2032.9 | 6278.3 | 177.9 | 11.4 | 177.9 | 83.0 |
| SWG | 83.0 | 4.0 | 79.0 | 87.0 | 86.0 | | 33.3 | | | | |
| CROPLAND | 528901.4 | 159023.7 | 503205.8 | 554597.2 | 509629.8 | 77608.5 | 226712.2 | 33997.3 | 4.2 | | |
| SWG | 9.8 | 2.9 | 9.3 | 10.3 | 9.4 | 1.4 | | | | | |
| VINEYARDS AND ORCH. | 71.7 | 71.7 | 71.7 | 71.7 | 2046.0 | 2046.0 | | | | | |
| SWG | .81 | .81 | .81 | .81 | | | | | | | |
| GRASSLAND AND PASTURE | 782.0 | 782.0 | 782.0 | 782.0 | 8006.2 | 8006.2 | | | | | |
| SWG | .14 | .14 | .14 | .14 | | | | | | | |
| WOODLAND | 2204.9 | 2204.9 | 2204.9 | 2204.9 | 2579.8 | 2579.8 | | | | | |
| SWG | .18 | .18 | .18 | .18 | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 551076.4 | 167906.9 | 524457.4 | 577595.6 | 531112.3 | 83565.9 | 238022.8 | 74368.3 | 3.2 | | |
| PERCENT REDUCTION: | 7.4 | 2.3 | 7.1 | 7.4 | 7.1 | 1.1 | 3.2 | | | | |
| | 8.0 | 69.5 | 4.0 | -4.0 | 3.6 | 44.8 | 56.3 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| 343IN: MAUMEE RIVER | | COUNTY: AS STEUBEN, INDIANA | | | | | | | | | |
|---------------------------------------|---|-----------------------------------|-----------------------------------|---|---|---|--|---------|--|--|---------|
| LAND USE | | WATERVILLE, OH | | | | | | | | | |
| AND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL WGMT. GROUP LAVO AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | | | | |
| | | | | | | | | | | | |
| CROPLAND 1 | 163487.1 | 54353.2 | 155271.7 | 176633.6 | 155271.7 | 23824.8 | 78866.6 | 15923.4 | | | 15923.4 |
| SW6 | 10.3 | 3.4 | 9.6 | 11.1 | 9.6 | 1.5 | 4.3 | 10.3 | | | 10.3 |
| CROPLAND 2 | 11319.5 | 11319.5 | 10750.6 | 12229.6 | 10750.6 | 1649.6 | 5403.3 | 4358.9 | | | 0.0 |
| SW6 | 2.6 | 2.6 | 2.5 | 2.6 | 2.5 | .4 | 1.2 | 3.0 | | | 3.0 |
| CROPLAND 3 | 1018.0 | 1018.0 | 966.8 | 1099.4 | 966.8 | 1718.0 | 1018.0 | 999.8 | | | 3.0 |
| SW6 | 2.3 | 2.3 | 2.2 | 2.3 | 2.2 | 2.3 | 2.3 | 0.0 | | | 0.0 |
| CROPLAND 4 | 2558.4 | 2558.4 | 2430.2 | 2764.5 | 2430.2 | 1221.5 | 1221.5 | 3314.1 | | | 0.0 |
| SW6 | .7 | .7 | .6 | .7 | .6 | .3 | .3 | 0.0 | | | 0.0 |
| CROPLAND 5 | 366.9 | 366.9 | 348.5 | 396.4 | 348.5 | 366.9 | 366.9 | 522.7 | | | 0.0 |
| SW6 | .6 | .6 | .6 | .6 | .6 | .6 | .5 | 0.0 | | | 0.0 |
| CROPLAND 9 | 153.4 | 153.4 | 145.7 | 165.8 | 145.7 | 153.4 | 153.4 | 177.9 | | | 0.0 |
| SW6 | .9 | .9 | .8 | .9 | .8 | .9 | .9 | 0.0 | | | 0.0 |
| CROPLAND | 178903.7 | 69769.8 | 159913.5 | 193287.9 | 169913.5 | 28239.2 | 86210.2 | 23441.9 | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2401.9 | 0.0 | | | | |
| BRASSLAND AND PASTURE | 299.7 | 299.7 | 299.7 | 2757.7 | 2757.7 | 0.0 | 0.0 | | | | |
| WOODLAND | 1368.5 | 1368.5 | 1368.5 | 10763.9 | 10763.9 | 0.0 | 0.0 | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 237769.1 | 94066.4 | 225931.2 | 256769.5 | 225931.2 | 33374.2 | 115710.1 | 44745.6 | | | |
| PERCENT REDUCTION: | 0.0 | 60.4 | 5.0 | -8.0 | 5.0 | 43.4 | 51.3 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 46 WILLIAMS, OHIO

WATERVILLE OH

PAUMEE RIVER

| LAND USE | EXISTING POT. LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING LOSS TO T. PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MOIST. GROUP LAND (ACRES) | EXISTING SOIL LOSS > T. FACTOR (TONS/ACRE) |
|--|--|---|-------------------------------|-------------------------------|-------------------------------|---|--------------------------------|--|
| CROPLAND 1 | 408944.1 | 161967.1 | 384666.0 | 397115.2 | 59144.0 | 175744.0 | 48482.0 | 44923.7 |
| 546 | 8.4 | 3.3 | 8.0 | 8.2 | 1.2 | 3.5 | | 8.7 |
| CROPLAND 2 | 371997.0 | 171073.8 | 353551.0 | 361236.8 | 53801.2 | 159866.4 | 68497.5 | 14301.0 |
| 546 | 5.4 | 2.5 | 5.2 | 5.3 | .8 | 2.3 | | 7.5 |
| CROPLAND 3 | 51061.2 | 48529.3 | 53593.2 | 49584.2 | 51061.2 | 51061.2 | 15211.4 | 15211.4 |
| 546 | 3.4 | 3.0 | 3.2 | 3.3 | 3.4 | 3.1 | | 3.4 |
| CROPLAND 4 | 21092.9 | 21092.9 | 21092.9 | 20882.8 | 9064.7 | 9064.7 | 24245.5 | 0.0 |
| 546 | .9 | .9 | .8 | .6 | .4 | .4 | | 9.9 |
| CROPLAND 5 | 16987.8 | 9541.7 | 16145.5 | 16496.4 | 16987.8 | 16987.8 | 3429.5 | 244.9 |
| 546 | 1.8 | 1.0 | 1.7 | 1.7 | 1.4 | 1.3 | | 30.9 |
| CROPLAND 6 | 3284.3 | 3284.3 | 3447.1 | 3189.3 | 1411.4 | 1411.4 | 3123.5 | 0.0 |
| 546 | 1.1 | 1.1 | 1.0 | 1.0 | .5 | .5 | | 9.0 |
| CROPLAND 9 | 7299.0 | 7299.0 | 7661.0 | 7087.9 | 7299.0 | 7299.0 | 6936.7 | 0.0 |
| 546 | 1.1 | 1.1 | 1.1 | 1.0 | 1.1 | 1.1 | | 0.0 |
| CROPLAND 10 | 59156.4 | 2046.0 | 56223.1 | 57445.3 | 4555.7 | 25422.6 | 711.7 | 711.7 |
| 546 | 83.1 | 2.9 | 79.2 | 80.7 | 12.0 | 33.7 | | 43.1 |
| CROPLAND | 939822.7 | 421940.2 | 893220.4 | 912637.9 | 207325.8 | 446957.3 | 176678.2 | |
| 546 | 5.3 | 2.4 | 5.1 | 5.2 | 1.2 | 2.3 | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 9874.3 (ACRES) | | | | |
| 546 | 0.0 | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | | | | | |
| PASTURE AND PASTURE | 708.6 | 708.6 (TONS) | 7383.5 (ACRES) | 22328.4 (ACRES) | | | | |
| 546 | .89 | .89 (TONS/ACRE) | .89 (TONS/ACRE) | | | | | |
| WOODLAND | 3553.9 | 3553.9 (TONS) | MISSING DATA | 27132.1 (ACRES) | | | | |
| 546 | .13 | .13 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EMISSION | | | | | | | | |
| 1065265.5 | 480904.0 | 1012681.0 | 1117850.8 | 1034591.8 | 234740.2 | 509013.8 | 238495.8 | |
| 4.5 | 2.0 | 4.2 | 4.7 | 4.3 | 1.0 | 2.1 | | |
| PERCENT REDUCTION: | 8.0 | 4.9 | 4.9 | 2.9 | 77.6 | 52.2 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MAUMEE RIVER | | COUNTY: 47 FULTON, OHIO | | | | | | | | | |
|---------------------------------------|--|--|-------------------------------|-------------------------------|--|--|------------------------------------|---|------|--|--|
| | | WATERVILLE, OH | | | | | | | | | |
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION YIELDAGE (TONS/ACRE) | REDUCED YIELDAGE: CHISEL PLD. AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | | | |
| 1. CROPLAND | 269172.6 | 71286.5 | 255249.9 | 282167.1 | 249680.8 | 30630.0 | 13981.9 | 17168.9 | 15.2 | | |
| 546 | 13.8 | 3.7 | 13.1 | 14.5 | 12.8 | 5.3 | | | | | |
| 2. CROPLAND | 86888.4 | 72427.7 | 82310.7 | 95990.7 | 80514.8 | 9877.3 | 33223.5 | 5070.6 | 5.8 | | |
| 545 | 1.7 | 1.4 | 1.6 | 1.4 | 1.6 | .2 | .5 | | | | |
| 3. CROPLAND | 52671.6 | 26153.6 | 49947.2 | 55214.4 | 48057.4 | 52671.6 | 52671.6 | 8717.9 | 6.0 | | |
| 546 | 6.0 | 3.0 | 5.7 | 6.3 | 5.6 | 6.0 | 6.0 | | | | |
| 4. CROPLAND | 41407.7 | 41407.7 | 39265.9 | 43436.7 | 38409.2 | 15849.1 | 15849.1 | 39853.1 | 0.0 | | |
| 545 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .4 | .4 | 0.0 | 0.0 | | |
| 5. CROPLAND | 8273.0 | 8273.0 | 7845.1 | 6672.4 | 7673.9 | 8273.0 | 8273.0 | 5849.7 | 0.0 | | |
| 546 | 1.2 | 1.2 | 1.1 | 1.3 | 1.1 | 1.2 | 1.2 | 0.0 | 0.0 | | |
| 6. CROPLAND | 7447.5 | 7447.5 | 7062.3 | 7807.0 | 6908.2 | 2850.6 | 2850.6 | 7027.7 | 0.0 | | |
| 545 | 1.1 | 1.1 | 1.0 | 1.1 | 1.0 | .4 | .4 | 0.0 | 0.0 | | |
| 7. CROPLAND | 6176.6 | 6176.6 | 5857.1 | 6474.8 | 5729.4 | 6176.6 | 6176.6 | 5426.4 | 0.0 | | |
| 546 | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | | |
| 8. CROPLAND | 471949.4 | 233092.6 | 447538.2 | 494733.1 | 437773.7 | 126328.2 | 222072.5 | 133963.2 | | | |
| 546 | 3.4 | 1.7 | 3.2 | 3.6 | 3.2 | .9 | 1.6 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS/ACRE) | 56044.5 (ACRES) | | | | | | |
| 3. GRASSLAND AND PASTURE | 225.8 | 225.8 (TONS) | 5070.6 (ACRES) | 16724.1 (ACRES) | | | | | | | |
| 546 | 0.4 | .04 (TONS/ACRE) | | | | | | | | | |
| 4. WOODLAND | 1083.4 | 1083.4 (TONS) | MISSING DATA | 444.8 (ACRES) | | | | | | | |
| 546 | 0.9 | .09 (TONS/ACRE) | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 474607.7 | 235070.0 | 450126.4 | 497456.4 | 440334.6 | 124001.5 | 224013.5 | 156476.8 | | | |
| PERCENT REDUCTION: | 0.0 | 50.5 | 5.2 | -4.4 | 7.2 | 73.0 | 52.3 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS - BUFFALO DISTRICT

COUNTY: 4A NOBLE, INDIANA

WATERVILLE, OH

BAZIN: MAUMEE RIVER

| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL REPT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
|---------------------------------------|---|---|-------------------------------|-------------------------------|-----------------------------|---|------------------------------------|---------------------------------------|
| CROPLAND 1 | 216039.9 | 4215.1 | 205796.6 | 231870.4 | 204865.4 | 28867.4 | 9493.1 | 13500.7 |
| | 14.1 | 3.2 | 13.5 | 15.2 | 13.4 | 1.9 | 6.2 | 14.1 |
| CROPLAND 2 | 9629.3 | 3685.5 | 9172.7 | 10334.9 | 9131.2 | 1286.7 | 4233.5 | 1156.5 |
| | 7.2 | 2.8 | 6.9 | 7.7 | 6.9 | 1.0 | 3.2 | 8.1 |
| CROPLAND 3 | 1662.1 | 1662.1 | 1583.3 | 1783.9 | 1576.1 | 1662.1 | 1662.1 | 944.4 |
| | 3.7 | 3.7 | 3.6 | 4.0 | 3.5 | 3.7 | 3.7 | 0.0 |
| CROPLAND 4 | 5465.2 | 5465.2 | 5206.1 | 5865.7 | 5182.5 | 2402.8 | 2402.8 | 5782.3 |
| | .9 | .9 | .9 | 1.0 | .9 | .4 | .4 | 0.0 |
| CROPLAND 5 | 3435.0 | 3435.0 | 3272.2 | 3686.7 | 3257.4 | 3435.0 | 3435.0 | 2312.9 |
| | 1.5 | 1.5 | 1.4 | 1.6 | 1.4 | 1.5 | 1.5 | 0.0 |
| CROPLAND 10 | 23931.2 | 1334.4 | 22796.6 | 25684.8 | 22693.4 | 3197.7 | 10521.5 | 266.9 |
| | 89.7 | 5.0 | 85.4 | 96.2 | 95.0 | 12.9 | 37.4 | 89.7 |
| CROPLAND | 260162.7 | 63797.3 | 247827.5 | 279226.4 | 246706.0 | 47851.7 | 117238.1 | 25442.0 |
| | 10.2 | 2.5 | 9.7 | 11.0 | 9.7 | 1.6 | 4.5 | |
| VINEYARDS AND ORCH. | 415.5 | 246.9 (TONS) | 4ATER | 177.9 (ACRES) | | | | |
| | 89.0 | 89.0 (ACRES) | AREA ONLY | | | | | |
| | 4.67 | 3.00 (TONS/ACRE) | | | | | | |
| PASTURE AND PASTURE | 280.5 | 280.5 (TONS) | OTHER LAND | 2498.4 (ACRES) | | | | |
| | 1601.2 | 1601.2 (ACRES) | JSE AREA | | | | | |
| | .18 | .18 (TONS/ACRE) | | | | | | |
| WOODLAND | 617.9 | 617.9 (TONS) | MISSING DATA | 6138.1 (ACRES) | | | | |
| | 3024.6 | 3024.6 (ACRES) | | | | | | |
| | .20 | .20 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 314697.4 | 78363.9 | 299851.5 | 337641.3 | 298501.7 | 50748.0 | 102682.0 | 36294.9 |
| | 8.7 | 2.2 | 8.3 | 9.3 | 8.2 | 1.4 | 5.4 | |
| PERCENT REDUCTION: | 0.0 | 75.1 | 4.7 | -7.3 | 9.1 | 83.9 | 54.7 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

WATERVILLE, OH
COUNTY: 44 DEKALB, INDIANA

| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL REHT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
|---------------------------------------|--|--------------------------|--------------------------|------------------------|--|------------------------------------|---------------------------------------|
| CROPLAND 1 | 146668.8 | 25553.8 | 137998.9 | 154733.6 | 18476.9 | 8362.8 | 8362.8 |
| 343 | 17.5 | 3.0 | 16.4 | 18.5 | 2.2 | 7.3 | 17.5 |
| CROPLAND 2 | 253352.4 | 93652.7 | 242154.4 | 271537.2 | 32422.4 | 107399.0 | 30423.6 |
| 346 | 8.2 | 3.0 | 7.7 | 9.7 | 1.0 | 5.4 | 8.4 |
| CROPLAND 3 | 3112.0 | 3112.0 | 2920.3 | 3263.6 | 3112.0 | 3112.9 | 711.7 |
| 345 | 4.4 | 4.4 | 4.1 | 4.6 | 4.4 | 4.4 | 0.0 |
| CROPLAND 4 | 8673.9 | 8673.9 | 8161.6 | 9152.6 | 3619.8 | 3619.8 | 9696.4 |
| 346 | .9 | .9 | .8 | .9 | .4 | .4 | 0.0 |
| CROPLAND 5 | 1385.9 | 1385.9 | 1228.8 | 1377.4 | 1385.9 | 1385.9 | 1957.1 |
| 345 | .7 | .7 | .5 | .7 | .7 | .7 | 0.0 |
| CROPLAND 6 | 417104.2 | 132097.5 | 392472.0 | 440094.3 | 589187.7 | 176641.5 | 52848.4 |
| 346 | 8.8 | 2.5 | 7.5 | 8.5 | 7.5 | 3.6 | 0.0 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 1512.3 (ACRES) | | | |
| 0.00 | 0.00 | 0.00 (TONS/ACRE) | | | | | |
| GRASSLAND AND PASTURE | 489.7 | 489.7 (TONS) | OTHER LAND | 5337.5 (ACRES) | | | |
| 2757.7 | 2757.7 (ACRES) | JSE AREA | | | | | |
| .15 | .15 (TONS/ACRE) | | | | | | |
| WOODLAND | 857.7 | 857.7 (TONS) | MISSING DATA | 156239.9 (ACRES) | | | |
| 6493.9 | 6493.9 (ACRES) | | | | | | |
| .13 | .13 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 1484641.8 | 473261.1 | 1397239.8 | 1566224.1 | 213642.4 | 631338.9 | 217581.9 |
| 6.8 | 2.2 | 6.4 | 7.2 | 6.4 | 1.0 | 2.3 | 0.0 |
| PERCENT REDUCTION: | 0.0 | 68.1 | 5.9 | -5.5 | 6.7 | 45.6 | 57.5 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: PAUMotu RIVER | | WATERVILLE OH | | COUNTY: 53 DEFAANCE, OHIO | | | |
|---------------------------------------|--|--------------------------|--------------------------|----------------------------------|--|-----------------------------------|---|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO PLDOLING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. 3033 LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) (TONS/ACRE) |
| CROPLAND 1 | 73518.1 | 20323.7 | 67038.0 | 75466.6 | 69597.0 | 10062.2 | 29307.2 |
| 346 | 12.2 | 3.4 | 11.4 | 12.5 | 11.5 | 1.7 | 4.9 |
| CROPLAND 2 | 69899.9 | 47497.4 | 65647.4 | 71760.3 | 66178.9 | 9568.0 | 24438.4 |
| 346 | 3.5 | 2.4 | 3.3 | 3.5 | 3.3 | .5 | 1.4 |
| CROPLAND 3 | 71982.2 | 70138.4 | 67603.1 | 73498.1 | 64150.5 | 71982.2 | 71982.2 |
| 346 | 3.0 | 3.0 | 2.9 | 3.1 | 2.9 | 3.0 | 3.0 |
| CROPLAND 4 | 8547.2 | 8547.2 | 8927.2 | 8774.7 | 8092.2 | 3477.4 | 3477.4 |
| 346 | 1.1 | 1.1 | 1.0 | 1.1 | 1.0 | .4 | .4 |
| CROPLAND 5 | 5766.3 | 3759.3 | 5415.5 | 5919.8 | 5459.4 | 5766.3 | 5766.3 |
| 346 | 2.0 | 1.3 | 1.8 | 2.0 | 1.9 | 2.0 | 2.0 |
| CROPLAND 6 | 28424.9 | 28424.9 | 26695.6 | 29181.4 | 26911.8 | 11564.5 | 11564.5 |
| 346 | 1.2 | 1.2 | 1.1 | 1.2 | 1.1 | .5 | .5 |
| CROPLAND 7 | 62114.7 | 48540.9 | 58335.9 | 63768.0 | 54808.2 | 62114.7 | 62114.7 |
| 346 | 1.5 | 1.2 | 1.4 | 1.5 | 1.4 | 1.5 | 1.5 |
| CROPLAND 8 | 42819.1 | 889.6 | 40214.1 | 43938.8 | 40539.8 | 5861.2 | 17420.7 |
| 346 | 96.3 | 2.0 | 90.4 | 98.4 | 91.1 | 13.2 | 39.2 |
| CROPLAND 9 | 363064.4 | 228521.4 | 340976.8 | 372727.7 | 343737.8 | 180396.5 | 230671.4 |
| 346 | 2.9 | 1.8 | 2.7 | 2.9 | 2.7 | 1.4 | 1.3 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 5960.2 | (ACRES) | |
| 346 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| PASTURE | 491.4 | 491.4 | 491.4 | 16724.1 | 16724.1 | (ACRES) | |
| 346 | 4536.8 | 4536.8 | 4536.8 | | | | |
| WOODLAND | 2769.3 | 2769.3 | 2769.3 | 87712.4 | 87712.4 | (ACRES) | |
| 346 | 21083.0 | 21083.0 | 21083.0 | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 576698.2 | 364849.7 | 541918.5 | 591902.8 | 546265.2 | 289123.8 | 368269.5 |
| PERCENT REDUCTION: | 0.0 | 36.7 | 6.0 | -2.5 | 5.3 | 49.9 | 36.1 |

LARE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MAUMEE RIVER | | COUNTY: 52 ALLEN, INDIANA | | | | | | | | | |
|---|------------------------------------|---|-------------------------------|-------------------------------|---------------------------------------|--|----------------------------------|---|--|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | POT. REDUCE LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE) | SQ. MILE GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS S F FACTOR (TONS/ACRE) | | | |
| 1. CROPLAND | 403993.1 | 141709.6 | 454880.7 | 504007.7 | 61863.8 | 196500.3 | 33359.2 | 33359.2 | | | |
| 546 1 | 14.5 | 4.2 | 13.6 | 15.1 | 13.6 | 5.9 | 5.9 | 14.5 | | | |
| 2. CROPLAND | 192107.4 | 182631.6 | 180627.2 | 200135.1 | 180627.2 | 24365.3 | 61971.7 | 51239.7 | | | |
| 546 2 | 3.0 | 2.9 | 2.8 | 3.1 | 2.8 | 1.2 | 1.2 | 3.2 | | | |
| 3. CROPLAND | 14703.8 | 14703.8 | 13819.4 | 15311.9 | 13819.4 | 14703.8 | 5337.0 | 0.0 | | | |
| 546 3 | 2.8 | 2.8 | 2.6 | 2.9 | 2.6 | 2.8 | 2.8 | 0.0 | | | |
| 4. CROPLAND | 43920.8 | 43920.8 | 41279.0 | 45737.1 | 41279.0 | 17932.5 | 45000.2 | 0.0 | | | |
| 546 4 | 1.0 | 1.0 | .9 | 1.0 | .5 | .4 | .4 | 0.0 | | | |
| 5. CROPLAND | 8850.1 | 8850.1 | 8317.8 | 9216.1 | 8317.8 | 8850.1 | 6502.9 | 0.0 | | | |
| 546 5 | 1.3 | 1.3 | 1.3 | 1.4 | 1.3 | 1.3 | 1.3 | 0.0 | | | |
| 6. CROPLAND | 62652.5 | 62652.5 | 58884.0 | 65243.4 | 58884.0 | 25437.9 | 48215.2 | 0.0 | | | |
| 546 6 | 1.3 | 1.3 | 1.2 | 1.4 | 1.2 | .5 | .5 | 0.0 | | | |
| 7. CROPLAND | 35677.3 | 800.6 | 33531.3 | 37152.7 | 33531.3 | 14485.3 | 355.8 | 355.8 | | | |
| 546 10 | 108.3 | 2.5 | 94.2 | 134.4 | 94.2 | 40.7 | 40.7 | 108.3 | | | |
| 8. CROPLAND | 841985.0 | 455269.0 | 791339.4 | 976904.0 | 791339.4 | 157113.7 | 203902.5 | 203902.5 | | | |
| 546 10 | 4.1 | 2.2 | 3.9 | 4.3 | 3.9 | .8 | 1.7 | 1.7 | | | |
| 9. VINEYARDS AND ORCH. | 248.4 | 248.4 (TONS) | 447.9 | 11119.7 (ACRES) | 11119.7 (ACRES) | | | | | | |
| 546 10 | 1.35 | 1.35 (TONS/ACRE) | | | | | | | | | |
| 10. GRASSLAND AND PASTURE | 1516.5 | 1516.5 (TONS) | 37152.7 | 56310.3 (ACRES) | 56310.3 (ACRES) | | | | | | |
| 546 10 | .08 | .08 (TONS/ACRE) | | | | | | | | | |
| 11. WOODLAND | 2810.5 | 2810.5 (TONS) | 2312.5 (ACRES) | 2312.5 (ACRES) | 2312.5 (ACRES) | | | | | | |
| 546 10 | .09 | .09 (TONS/ACRE) | | | | | | | | | |
| 12. SUMMARY TOTAL POTENTIAL GROSS EROSION | 834280.7 | 464034.3 | 803172.4 | 894917.6 | 803172.6 | 163863.5 | 363706.7 | 255554.9 | | | |
| 546 10 | 3.3 | 1.8 | 3.1 | 3.5 | 3.1 | .6 | 1.4 | 1.4 | | | |
| PERCENT REDUCTION: | 0.0 | 45.7 | 6.0 | -4.1 | 6.0 | 80.8 | 57.4 | 57.4 | | | |

LAKE ERIE WASTE-WATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MAUMEE RIVER | | | COUNTY: ST. PAULING, OHIO | | | | | | | | | |
|--|--|--|-------------------------------|--|---|---|---|--|--|--|--|--|
| LAND USE | EXISTING POTENTIAL LOSS TO T. FLOWING AND EXISTING ONLY (TONS/ACRE) | FALL FLOWING ONLY (TONS/ACRE) | WINTER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISEL P-DM AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS BY FACTOR (TONS/ACRE) | | | | | |
| CROPLAND 1 | 12544.0 | 2436.4 | 11748.4 | 12743.9 | 12144.2 | 1156.3 | 622.7 | | | | | |
| S46 | 10.8 | 2.1 | 10.2 | 11.0 | 10.5 | 4.6 | 14.4 | | | | | |
| CROPLAND 2 | 27703.4 | 25937.4 | 28144.3 | 26420.4 | 4194.1 | 11493.4 | 0.0 | | | | | |
| S46 | 2.4 | 2.4 | 2.3 | 2.5 | .4 | 1.0 | 0.0 | | | | | |
| CROPLAND 3 | 79873.4 | 72048.2 | 74781.9 | 81146.2 | 77327.6 | 79873.4 | 1245.4 | | | | | |
| S46 | 3.0 | 2.7 | 2.4 | 3.9 | 3.0 | 3.0 | 8.3 | | | | | |
| CROPLAND 4 | 12132.7 | 12132.7 | 11359.3 | 12326.0 | 11746.0 | 5123.8 | 3.0 | | | | | |
| S46 | 1.2 | 1.2 | 1.1 | 1.2 | .5 | .5 | 9.0 | | | | | |
| CROPLAND 5 | 35734.9 | 16014.2 | 33457.0 | 36304.4 | 34596.0 | 35734.9 | 889.6 | | | | | |
| S46 | 3.3 | 1.5 | 3.1 | 3.4 | 3.2 | 3.3 | 25.2 | | | | | |
| CROPLAND 7 | 6495.2 | 4738.9 | 6071.8 | 6588.5 | 6270.5 | 6485.2 | 89.0 | | | | | |
| S46 | 3.2 | 2.3 | 3.0 | 3.2 | 3.1 | 3.2 | 21.6 | | | | | |
| CROPLAND 8 | 52493.0 | 45146.4 | 53329.5 | 50819.9 | 22168.3 | 22168.3 | 0.0 | | | | | |
| S46 | 1.2 | 1.2 | 1.1 | 1.2 | .5 | .5 | 0.0 | | | | | |
| CROPLAND 9 | 124811.2 | 124811.2 | 139864.0 | 124795.6 | 124811.2 | 124811.2 | 89.0 | | | | | |
| S46 | 1.2 | 1.2 | 1.3 | 1.2 | 1.2 | 1.2 | 47.2 | | | | | |
| CROPLAND 10 | 40021.0 | 1156.5 | 37469.8 | 40658.8 | 38745.4 | 40021.0 | 444.8 | | | | | |
| S46 | 90.0 | 2.6 | 84.2 | 91.4 | 87.1 | 33.0 | 90.0 | | | | | |
| CROPLAND | 395798.8 | 313510.6 | 376568.6 | 402106.2 | 383183.6 | 312095.3 | 202228.5 | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 7650.4 (ACRES) | 0.0 | 0.0 | 0.0 | | | | | |
| GRASSLAND AND PASTURE | 189.9 | 189.9 (TONS) | 21972.6 (ACRES) | 21972.6 (ACRES) | 0.0 | 0.0 | 0.0 | | | | | |
| WOODLAND | 1913.4 | 1913.4 (TONS) | 622.7 (ACRES) | 622.7 (ACRES) | 0.0 | 0.0 | 0.0 | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS FROSTION | 398976.3 | 316465.4 | 405300.7 | 386327.0 | 293241.8 | 315046.5 | 231290.3 | | | | | |
| PERCENT REDUCTION: | 0.0 | 20.7 | 6.3 | -1.6 | 3.2 | 26.5 | 21.0 | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: MAURICE RIVER | | WATERVILLE, OHIO | | COUNTY: 50 PUTNAM, OHIO | | | | | |
|--------------------------------------|---|---|---------------------------------|---------------------------------|-------------------------------|---------------------------------------|--|------------------------------------|---------------------------------------|
| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | POT. REDUCE LOSS TO T AND EXISTING ONLY (TONS/ACRE) | SOIL PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL P.-J. AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
| CROPLAND 1 | 45116.7 6.3 | 27469.8 3.9 | 42724.1 6.0 | 47509.2 6.7 | 42382.3 6.0 | 5539.6 6.8 | 18285.3 2.5 | 7116.5 | 5693.3 6.9 |
| CROPLAND 2 | 79924.2 2.2 | 75685.9 2.1 | 75086.4 2.1 | 75086.4 2.1 | 3990.5 3.1 | 32393.5 3.1 | 36146.5 3.1 | 11772.1 3.1 | |
| CROPLAND 3 | 100753.4 3.0 | 79795.1 3.0 | 95410.4 3.6 | 106096.3 6.0 | 94647.1 3.6 | 100753.4 3.6 | 26598.4 3.6 | | |
| CROPLAND 4 | 34496.3 1.1 | 34496.3 1.1 | 32666.9 1.1 | 36325.6 1.2 | 32405.6 1.1 | 13981.4 1.5 | 30698.5 1.5 | | |
| CROPLAND 5 | 57214.0 3.1 | 26704.7 1.5 | 54180.0 2.9 | 60248.1 3.2 | 53746.5 2.9 | 57214.0 3.1 | 18592.2 3.1 | | 1957.1 11.6 |
| CROPLAND 7 | 200.6 2.3 | 200.6 2.3 | 190.0 2.1 | 211.3 2.4 | 188.5 2.1 | 200.6 2.3 | 89.0 2.3 | | 0.0 0.0 |
| CROPLAND 8 | 46538.6 1.2 | 46538.6 1.2 | 44079.6 1.1 | 49006.6 1.2 | 45718.1 1.1 | 18862.2 1.5 | 39961.9 1.5 | | 0.0 0.0 |
| CROPLAND 9 | 122509.6 1.6 | 89823.7 1.2 | 116012.9 1.5 | 129006.3 1.7 | 115044.7 1.5 | 122509.6 1.6 | 75703.1 1.5 | | 1067.5 32.6 |
| CROPLAND | 468753.4 2.1 | 386252.4 1.6 | 460940.8 2.0 | 512566.1 2.2 | 457253.2 1.9 | 529151.3 1.9 | 364200.6 1.5 | | |
| VINEYARDS AND ORCH. | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 9343.6 (ACRES) | | | | |
| GRASSLAND AND PASTURE | 249.4 6671.8 | 249.4 (TONS) 6671.8 (ACRES) | 249.4 (TONS) 6671.8 (ACRES) | 249.4 (TONS) 6671.8 (ACRES) | 23158.7 (ACRES) | | | | |
| WOODLAND | 518.7 13977.4 | 518.7 (TONS) 13977.4 (ACRES) | 518.7 (TONS) 13977.4 (ACRES) | 518.7 (TONS) 13977.4 (ACRES) | 14411.2 (ACRES) | | | | |
| 319MAY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | |
| | 515025.3 1.9 | 408854.5 1.5 | 487756.5 1.8 | 542294.2 2.2 | 483860.8 1.6 | 344532.8 1.3 | 385559.5 1.4 | 263358.6 | |
| PERCENT REDUCTION: | | | | | | | | | |
| | 0.0 | 20.6 | 5.3 | -5.3 | 6.1 | 32.3 | 25.1 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: MAUMEE RIVER | | WATERVILLE, OH | | COUNTY: 55 WELLS, INDIANA | | | | | | | | | | | | | | | |
|---------------------------------------|---|-------------------------------------|---|-------------------------------|-------------------------|---------------------------------------|---|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING ONLY (TONS/ACRE) | SOIL SPRING LOSS TO T. PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL REPT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS S.T. FACTOR (TONS/ACRE) | EXISTING SOIL LOSS S.T. FACTOR (TONS/ACRE) | EXISTING SOIL LOSS S.T. FACTOR (TONS/ACRE) | EXISTING SOIL LOSS S.T. FACTOR (TONS/ACRE) | EXISTING SOIL LOSS S.T. FACTOR (TONS/ACRE) | EXISTING SOIL LOSS S.T. FACTOR (TONS/ACRE) | EXISTING SOIL LOSS S.T. FACTOR (TONS/ACRE) | EXISTING SOIL LOSS S.T. FACTOR (TONS/ACRE) | EXISTING SOIL LOSS S.T. FACTOR (TONS/ACRE) | EXISTING SOIL LOSS S.T. FACTOR (TONS/ACRE) | EXISTING SOIL LOSS S.T. FACTOR (TONS/ACRE) |
| COPLAND | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 |
| 500 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| COPLAND | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PASSLAND AND PASTURE | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WOODLAND | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | | | | | | | |
| | 7962.2 | 7962.2 | 7962.2 | 7962.2 | 7962.2 | 7962.2 | 7962.2 | 7962.2 | 7962.2 | 7962.2 | 7962.2 | 7962.2 | 7962.2 | 7962.2 | 7962.2 | 7962.2 | 7962.2 | 7962.2 | 7962.2 |
| PERCENT REDUCTION: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

LAKE ERIE WATERSHED MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: MAUMEE RIVER | | COUNTY: 56 TOWNS, INDIANA | | | | | | | | | |
|---------------------------------------|-------------------------------|--------------------------------|--|--------------------------|--------------------------|----------------------------------|--|------------------------------------|-----------------------------------|--------------------------------|--|
| LAND USE | EXISTING GROSS EROSION (TONS) | POTENTIAL GROSS EROSION (TONS) | REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CRAP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHESEL PLD. AREA (TONS) | SOIL MGMT. STOPP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | |
| | | | | | | | | | | | |
| WOODLAND 1 | 40211.0 | 11026.2 | 30133.7 | 42436.7 | 37688.6 | 4896.5 | 16025.1 | 4003.1 | 3736.2 | 18.6 | |
| 246 | 129179.1 | 72104.2 | 122505.6 | 136329.2 | 121675.6 | 15730.3 | 51481.3 | 24107.5 | 23843.7 | 5.4 | |
| CROPLAND 3 | 517.6 | 517.6 | 490.9 | 546.3 | 485.2 | 517.6 | 517.6 | 177.9 | 0.0 | 0.0 | |
| 346 | 25464.1 | 25464.1 | 24148.7 | 26873.6 | 23866.0 | 10148.1 | 10148.1 | 25086.1 | 0.0 | 0.0 | |
| WOODLAND 5 | 2386.5 | 2386.5 | 2263.2 | 2518.5 | 2236.8 | 2386.5 | 2386.5 | 1601.2 | 0.0 | 0.0 | |
| 342 | 197758.3 | 112298.6 | 187542.1 | 204704.3 | 185353.0 | 33679.0 | 80558.3 | 54975.9 | | | |
| WETLANDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| GRASSLAND AND PASTURE | 162.5 | 162.5 | 162.5 | 162.5 | 162.5 | 162.5 | 162.5 | 162.5 | | | |
| WOODLAND | 265.0 | 265.0 | 265.0 | 265.0 | 265.0 | 265.0 | 265.0 | 265.0 | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | |
| PERCENT REDUCTION: | | | | | | | | | | | |

Lake Erie Wastewater Management Study
Land Management Alternatives: Best Management Practice Scenarios

| BASIN: PAUMEE RIVER | | WATERVILLE, OH | | COUNTY: ST. VAN WERT, OHIO | | | |
|---------------------------------------|--|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|
| LAND USE | EXISTING POT. REDUCE SOIL LOSS TO T. EROSION AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM PERILLAGE TILLAGE (TONS/ACRE) | ACCURED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) |
| 210PLAND | 81060.0 | 21172.0 | 77654.4 | 95744.8 | 76533.5 | 9531.6 | 6493.9 |
| 346 | 12.6 | 3.3 | 12.0 | 13.2 | 11.8 | 1.5 | 0.3 |
| 220PLAND | 278316.1 | 184944.9 | 264019.1 | 291650.0 | 260206.5 | 32406.7 | 61825.7 |
| 346 | 4.5 | 3.0 | 4.3 | 4.7 | 4.2 | .5 | 1.7 |
| 230PLAND | 15448.3 | 11475.6 | 14654.7 | 16148.9 | 14443.2 | 15448.3 | 3925.2 |
| 346 | 4.0 | 3.0 | 3.4 | 4.2 | 3.8 | 0.0 | 0.0 |
| 240PLAND | 60672.8 | 60672.8 | 57556.1 | 63581.8 | 56724.9 | 23271.8 | 50947.2 |
| 346 | 1.0 | 1.0 | .9 | 1.0 | .9 | .4 | .4 |
| 250PLAND | 8563.4 | 8563.4 | 8123.5 | 8974.0 | 8006.2 | 4563.4 | 5248.5 |
| 346 | 1.6 | 1.6 | 1.5 | 1.7 | 1.5 | 1.6 | 1.5 |
| 260PLAND | 84535.2 | 84535.2 | 80192.7 | 88588.3 | 79034.7 | 32424.5 | 59245.3 |
| 346 | 1.4 | 1.4 | 1.4 | 1.5 | 1.3 | .5 | .5 |
| 270PLAND | 14154.7 | 14154.7 | 13427.5 | 14433.3 | 13233.6 | 14154.7 | 19141.2 |
| 346 | 1.4 | 1.4 | 1.3 | 1.5 | 1.3 | 1.4 | 1.4 |
| 280PLAND | 543550.5 | 385518.6 | 515628.4 | 569611.1 | 508182.5 | 135801.0 | 207627.6 |
| 346 | 2.6 | 1.9 | 2.3 | 2.7 | 2.4 | .7 | 1.1 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 6938.7 | (ACRES) | |
| GRASSLAND AND PASTURE | 183.7 | 183.7 | 183.7 | 183.7 | 183.7 | (ACRES) | |
| | 3291.4 | 3291.4 | 3291.4 | 3291.4 | 3291.4 | (ACRES) | |
| | .03 | .03 | .03 | .03 | .03 | (ACRES) | |
| WOODLAND | 667.2 | 667.2 | 667.2 | 667.2 | 667.2 | (ACRES) | |
| | 10763.9 | 10763.9 | 10763.9 | 10763.9 | 10763.9 | (ACRES) | |
| | .06 | .06 | .06 | .06 | .06 | (ACRES) | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | |
| | 575556.6 | 408456.2 | 546032.2 | 603112.7 | 538159.1 | 144408.9 | 234003.9 |
| PERCENT REDUCTION: | 2.5 | 1.7 | 2.3 | 2.6 | 2.3 | .6 | 1.1 |
| | 0.0 | 29.0 | 5.1 | -4.4 | 6.5 | 74.9 | 57.2 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MAUMEE RIVER | | | | | | | | | | COUNTY: 56 ALLEN, OHIO | | | | | | | | | |
|---------------------------------------|----------|---------------------------------|----------|-------------------|----------|--------------|----------|--------------|------|------------------------|-----|------------------|------|-------------|--|--|--|--|--|
| LAND USE | | EXISTING POT-REDUCE SOIL SPRING | | | | FALL PLOWING | | WINTER COVER | | MAXIMUM REDUCTION | | REDUCED TILLAGE: | | SOIL MGMT. | | | | | |
| | | GROSS LOSS TO T PLOWING | | AND EXISTING ONLY | | ONLY | | CROP | | TILLAGE | | CHISEL PLOW AREA | | SOIL LOSS | | | | | |
| | | (TONS) | | (TONS) | | (TONS) | | (TONS) | | (TONS) | | (TONS) | | (TONS) | | | | | |
| | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | | | | |
| CROPLAND 1 | 27225.7 | 71568.0 | 250478.9 | 266972.6 | 260514.1 | 34599.5 | 109908.2 | 22417.6 | 12.3 | 85577.4 | 6.7 | 22150.3 | 12.3 | | | | | | |
| 346 | 12.2 | 3.2 | 11.5 | 12.8 | 11.6 | 1.5 | 0.3 | | | | | | | | | | | | |
| CROPLAND 2 | 576702.2 | 269458.9 | 548471.4 | 606932.8 | 552790.1 | 73417.4 | 233208.2 | 91448.6 | 2.5 | 85577.4 | 6.7 | 22150.3 | 12.3 | | | | | | |
| 346 | 6.3 | 2.9 | 6.0 | 6.7 | 6.0 | .8 | 2.5 | | | | | | | | | | | | |
| CROPLAND 4 | 54125.4 | 54125.4 | 51297.9 | 56952.8 | 51701.4 | 21811.7 | 21811.7 | 56132.4 | 1.5 | 85577.4 | 6.7 | 22150.3 | 12.3 | | | | | | |
| 346 | 1.0 | 1.0 | .9 | 1.0 | .9 | .4 | .4 | | | | | | | | | | | | |
| CROPLAND 5 | 4993.7 | 4993.7 | 4732.8 | 5254.5 | 4770.1 | 4993.7 | 4993.7 | 3380.4 | 1.5 | 85577.4 | 6.7 | 22150.3 | 12.3 | | | | | | |
| 346 | 1.5 | 1.5 | 1.4 | 1.6 | 1.4 | 1.5 | 1.5 | | | | | | | | | | | | |
| CROPLAND 8 | 6972.0 | 6607.8 | 7336.2 | 6659.8 | 2809.6 | 2809.6 | 2809.6 | 5693.3 | .5 | 85577.4 | 6.7 | 22150.3 | 12.3 | | | | | | |
| 346 | 1.2 | 1.2 | 1.3 | 1.3 | 1.2 | .5 | .5 | | | | | | | | | | | | |
| CROPLAND 9 | 377.6 | 357.9 | 397.4 | 360.7 | 377.6 | 377.6 | 377.6 | 266.9 | 1.4 | 85577.4 | 6.7 | 22150.3 | 12.3 | | | | | | |
| 346 | 1.4 | 1.4 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | | | | | | | | | | | | |
| CROPLAND 10 | 48176.9 | 1334.4 | 45660.2 | 50693.6 | 46019.7 | 6112.0 | 19419.5 | 444.8 | 13.7 | 85577.4 | 6.7 | 22150.3 | 12.3 | | | | | | |
| 345 | 108.3 | 3.0 | 102.7 | 114.0 | 103.5 | 13.7 | 45.5 | | | | | | | | | | | | |
| CROPLAND | 966073.5 | 408822.0 | 915606.9 | 1016540.0 | 922816.4 | 144121.5 | 392519.6 | 177783.8 | 2.2 | 85577.4 | 6.7 | 22150.3 | 12.3 | | | | | | |
| 345 | 5.4 | 2.3 | 5.1 | 5.7 | 5.1 | .8 | 2.2 | | | | | | | | | | | | |
| VINEYARDS AND ORCH. | 26.9 | 26.9 | 9073.7 | 9073.7 | 9073.7 | 9073.7 | 9073.7 | 444.8 | 2.2 | 85577.4 | 6.7 | 22150.3 | 12.3 | | | | | | |
| 346 | .30 | .30 | .30 | .30 | .30 | .30 | .30 | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 824.9 | 824.9 | 30868.3 | 30868.3 | 30868.3 | 30868.3 | 30868.3 | 444.8 | 2.2 | 85577.4 | 6.7 | 22150.3 | 12.3 | | | | | | |
| 346 | .08 | .08 | .08 | .08 | .08 | .08 | .08 | | | | | | | | | | | | |
| WOODLAND | 2165.1 | 2165.1 | 8717.9 | 8717.9 | 8717.9 | 8717.9 | 8717.9 | 444.8 | 2.2 | 85577.4 | 6.7 | 22150.3 | 12.3 | | | | | | |
| 346 | .10 | .10 | .10 | .10 | .10 | .10 | .10 | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS FROSION | | 1009011.0 | | 428804.2 | | 956465.5 | | 1061556.5 | | 963972.6 | | 411830.2 | | 222348.5 | | | | | |
| PERCENT REDUCTION: | | 9.0 | | 51.5 | | 5.2 | | -5.2 | | 4.5 | | 84.8 | | 59.2 | | | | | |

COUNTRY: 59 410000. 0010

MOBILE

BASIN: MAUMEE RIVER

69

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 63 AUGLAIZE, OHIO

WATERVILLE, OH

BAZIN: MAUMEE RIVER

| LAND USE | EXISTING GROSS EROSION (TONS) | POT. LOSS TO T. PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) |
|---------------------------------------|-------------------------------|--|--------------------------|--------------------------|----------------------------------|--|------------------------------------|-----------------------------------|
| CROPLAND 1 | 13768.1 | 30245.7 | 131568.9 | 146796.8 | 19491.7 | 61520.7 | 10408.1 | 10408.1 |
| SW | 13.2 | 2.9 | 12.6 | 14.1 | 1.9 | 5.3 | 13.2 | 13.2 |
| CROPLAND 2 | 20444.1 | 18498.6 | 195402.7 | 199021.3 | 28948.6 | 91369.9 | 35550.6 | 33003.4 |
| SW | 5.6 | 2.9 | 5.3 | 5.4 | .8 | 2.3 | 6.0 | 6.0 |
| CROPLAND 3 | 1563.0 | 1334.4 | 1493.9 | 1521.5 | 1563.8 | 1563.0 | 444.8 | 444.8 |
| SW | 3.5 | 3.0 | 3.4 | 3.7 | 3.5 | 3.3 | 3.5 | 3.5 |
| CROPLAND 4 | 16252.4 | 16252.4 | 15533.2 | 17331.0 | 7263.2 | 7263.2 | 20549.3 | 0.0 |
| SW | .8 | .8 | .8 | .8 | .4 | .4 | 0.0 | 0.0 |
| CROPLAND 5 | 2815.4 | 2815.4 | 2690.9 | 2740.7 | 2815.4 | 2815.4 | 2135.0 | 3.0 |
| SW | 1.3 | 1.3 | 1.3 | 1.4 | 1.3 | 1.3 | 0.0 | 0.0 |
| CROPLAND 9 | 2066.0 | 2066.0 | 1974.5 | 2011.2 | 2066.0 | 2066.0 | 1512.3 | 0.0 |
| SW | 1.4 | 1.4 | 1.3 | 1.5 | 1.4 | 1.4 | 0.0 | 0.0 |
| CROPLAND | 36488.0 | 157614.5 | 346664.2 | 389018.8 | 62147.9 | 166597.1 | 71700.1 | |
| SW | 5.1 | 2.2 | 4.9 | 5.4 | .9 | 2.3 | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 2935.6 (ACRES) | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | | | | | | |
| GRASSLAND AND PASTURE | 166.0 | 166.0 (TONS) | OTHER LAND | 5515.4 (ACRES) | | | | |
| | 2757.7 | 2757.7 (ACRES) | USE AREA | | | | | |
| | .06 | .06 (TONS/ACRE) | | | | | | |
| WOODLAND | 864.9 | 864.9 (TONS) | MISSING DATA | 116089.7 (ACRES) | | | | |
| | 7383.5 | 7383.5 (ACRES) | | | | | | |
| | .12 | .12 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 884766.4 | 845726.3 | 943324.4 | 861343.9 | 152796.2 | 403403.6 | 197931.0 | |
| | 4.5 | 4.3 | 4.8 | 4.4 | .8 | 2.0 | | |
| PERCENT REDUCTION: | 0.0 | 56.6 | 4.4 | -6.6 | 2.6 | 82.7 | 54.2 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MAHONCE RIVER | | WATERVILLE, OH | | | | | | | | | | COUNTY: 61 SMPPLY, OHIO | | | | | | | | | |
|---------------------------------------|---|--------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---------------------------------------|---------|--|--|--|-------------------------|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING, ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHESTNUT P. 3A AREA (TONS) | SOIL MGMT. 3100+ LAVO AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) | | | | | | | | | | | | | | |
| 1- CROPLAND 1 | 22415.6 | 6582.9 | 21519.3 | 29010.0 | 21917.9 | 1193.0 | 2312.9 | | | | | | | | | | | | | | |
| 546 | 9.7 | 2.8 | 9.3 | 10.4 | 9.5 | 1.4 | 9.7 | | | | | | | | | | | | | | |
| 2- CROPLAND 2 | 48610.2 | 18419.3 | 46516.7 | 51930.5 | 47374.1 | 6491.4 | 6138.1 | | | | | | | | | | | | | | |
| 546 | 7.9 | 3.0 | 7.6 | 8.5 | 7.7 | 1.1 | 7.9 | | | | | | | | | | | | | | |
| 4- CROPLAND 4 | 2037.7 | 2037.7 | 1947.5 | 2172.9 | 1993.5 | 310.5 | 2560.7 | | | | | | | | | | | | | | |
| 546 | .4 | .4 | .7 | .4 | .7 | .3 | .4 | | | | | | | | | | | | | | |
| 5- CROPLAND 5 | 776.8 | 776.8 | 742.5 | 820.4 | 756.2 | 776.8 | 776.9 | | | | | | | | | | | | | | |
| 546 | 1.2 | 1.2 | 1.2 | 1.3 | 1.2 | 1.2 | 1.2 | | | | | | | | | | | | | | |
| 1- CROPLAND | 74000.3 | 27811.7 | 70726.0 | 78911.8 | 72035.7 | 11766.8 | 33500.5 | 11742.4 | | | | | | | | | | | | | |
| | 6.3 | 2.4 | 6.0 | 6.7 | 6.1 | 1.0 | 2.9 | | | | | | | | | | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 533.7 (ACRES) | | | | | | | | | | | | | | | | | |
| | 0.0 | 0.0 (ACRES) | | | | | | | | | | | | | | | | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | | | | | | | | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 17.9 | 17.9 (TONS) | OTHER LAND USE AREA | 533.7 (ACRES) | | | | | | | | | | | | | | | | | |
| | 177.9 | 177.9 (ACRES) | | | | | | | | | | | | | | | | | | | |
| | .10 | .10 (TONS/ACRE) | | | | | | | | | | | | | | | | | | | |
| WOODLAND | 258.9 | 258.9 (TONS) | MISSING DATA | 533.7 (ACRES) | | | | | | | | | | | | | | | | | |
| | 1690.2 | 1690.2 (ACRES) | | | | | | | | | | | | | | | | | | | |
| | .15 | .15 (TONS/ACRE) | | | | | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 77109.7 | 73787.0 | 82293.8 | 75148.0 | 12515.9 | 35101.5 | 10100.2 | | | | | | | | | | | | | | |
| | 5.5 | 2.1 | 5.2 | 5.8 | 5.3 | .9 | 2.3 | | | | | | | | | | | | | | |
| PERCENT REDUCTION: | 8.0 | 62.2 | 4.4 | -6.5 | 2.5 | 83.8 | 50.5 | | | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MAURICE RIVER | | COUNTY: 02 ALL IN BASIN | | | | | | | | | |
|---------------------------------------|--|--|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---------------------------------------|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO FLOW AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) | | | |
| 1 CROPLAND | 3247739.0 | 1115129.7 | 308080.0 | 3422547.0 | 3698335.0 | 433660.3 | 345199.0 | 248740.3 | | | |
| 2 CROPLAND | 3471857.0 | 2079033.9 | 3292560.0 | 3651917.0 | 3310101.0 | 450406.8 | 322057.9 | 526429.7 | | | |
| 3 CROPLAND | 505374.4 | 419684.6 | 477334.6 | 526911.1 | 480815.9 | 505374.4 | 143191.5 | 85646.6 | | | |
| 4 CROPLAND | 475736.2 | 475736.2 | 450840.4 | 493346.2 | 451086.0 | 194250.7 | 50139.5 | 0.0 | | | |
| 5 CROPLAND | 207113.1 | 144848.2 | 195929.1 | 216646.6 | 197476.3 | 207113.1 | 125167.6 | 3590.4 | | | |
| 6 CROPLAND | 6685.8 | 4939.5 | 6261.7 | 6749.8 | 6466.9 | 6595.8 | 2135.3 | 89.0 | | | |
| 7 CROPLAND | 503811.0 | 503811.0 | 473396.6 | 522161.3 | 472718.1 | 200387.1 | 403720.0 | 0.0 | | | |
| 8 CROPLAND | 354682.8 | 301090.7 | 334004.7 | 366830.9 | 337493.5 | 354682.8 | 251083.3 | 1601.2 | | | |
| 9 CROPLAND | 319447.5 | 9452.6 | 301193.7 | 352300.1 | 304082.1 | 43296.0 | 3351.4 | 3351.4 | | | |
| 10 CROPLAND | 9092446.8 | 5053926.9 | 8612400.8 | 9545468.0 | 8658574.6 | 2403607.0 | 2596745.3 | 95.3 | | | |
| VINEYARDS AND ORCH. | 892.7 | 744.0 (TONS) | 725.1 (ACRES) | 105637.1 (ACRES) | | | | | | | |
| GRASSLAND AND PASTURE | 7992.9 | 7992.9 (TONS) | 323477.1 (ACRES) | 323477.1 (ACRES) | | | | | | | |
| WOODLAND | 27489.6 | 27363.6 (TONS) | 640253.1 (ACRES) | 640253.1 (ACRES) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | |
| 11081138.9 | 6179701.7 | 10494421.3 | 11631126.4 | 10354476.1 | 2969045.1 | 5418653.0 | 3634119.4 | 1.3 | | | |

CINC • VJ3N3S 50 :AJNCC

MC-3771AC01M

BOSSIN: PORTAGE RIVER

| LAND USE | EXISTING POTENTIAL GROSS EROSION | | SOIL SPRING | | FALL | | WINTER | | MAXIMUM | | REDUCED | | SOIL MONT. | | EXISTING SOIL LOSS BY FACTOR (ACRES) (TONS/ACRE) |
|---------------------------------------|---|--|--|--|---|--|---|--|--|-----|---------|-----|------------|--|--|
| | GROSS FROSION (TONS) (TONS/ACRE) | LOSS TO T AND EXISTING (TONS) (TONS/ACRE) | PLOWING ONLY (TONS) (TONS/ACRE) | PLOWING ONLY (TONS) (TONS/ACRE) | OTHER LAND USE AREA (TONS) (TONS/ACRE) | COVER CROP (TONS) (TONS/ACRE) | YILLAGE YILLAGE (TONS) (TONS/ACRE) | CHISEL TILLAGE (TONS) (TONS/ACRE) | GROUP LAND AREA (ACRES) (ACRES) | | | | | | |
| CROPLAND | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| WINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| GRASSLAND AND PASTURE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| WOODLAND | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | | | |
| PERCENT REDUCTION: | | | | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: PORTAGE RIVER | | JODDVILLE, OH | | COUNTY: 06 SANDUSKY, OHIO | | | | | | | | | | | | | | | |
|---------------------------------------|----------------------------------|----------------------|-------------------|---------------------------|-------------------|-----------------|-----------------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION | LOSS TO PLOWING ONLY | FALL PLOWING ONLY | WINTER COVER | MAXIMUM REDUCTION | REDUCED TILLAGE | SOIL REPT. GROUP LAND | EXISTING SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS |
| (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) |
| CROPLAND 1 | 1022.5 | 602.9 | 900.5 | 1007.4 | 972.9 | 122.1 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 |
| SW6 | 0.0 | 4.7 | 7.6 | 6.5 | 7.6 | 1.0 | 3.2 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| CROPLAND 2 | 2012.4 | 1090.4 | 1929.4 | 2140.1 | 1914.8 | 240.3 | 731.4 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 |
| SW6 | 2.8 | 2.6 | 2.6 | 2.9 | 2.6 | .3 | 1.1 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| CROPLAND 3 | 5397.0 | 1808.8 | 5175.5 | 5739.4 | 5135.2 | 5397.0 | 602.9 | 602.9 | 602.9 | 602.9 | 602.9 | 602.9 | 602.9 | 602.9 | 602.9 | 602.9 | 602.9 | 602.9 | 602.9 |
| SW6 | 9.0 | 3.0 | 8.6 | 9.5 | 8.5 | 9.0 | 9.3 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| CROPLAND 5 | 106.8 | 106.8 | 102.4 | 113.5 | 101.6 | 106.8 | 79.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SW6 | 1.4 | 1.4 | 1.3 | 1.4 | 1.3 | 1.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CROPLAND 8 | 2624.5 | 2624.5 | 2516.7 | 2790.9 | 2497.2 | 1057.6 | 2411.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SW6 | 1.1 | 1.1 | 1.0 | 1.2 | 1.6 | .4 | .4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CROPLAND | 11163.2 | 7041.0 | 10704.9 | 11871.3 | 10621.7 | 6923.8 | 3953.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 |
| SW6 | 2.8 | 1.8 | 2.7 | 3.0 | 2.7 | 1.8 | 2.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 118.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SW6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| GRASSLAND AND PASTURE | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 434.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SW6 | 464.6 | 464.6 | 464.6 | 464.6 | 464.6 | 434.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SW6 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 |
| WOODLAND | 26.2 | 26.2 | 26.2 | 26.2 | 26.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SW6 | 682.0 | 682.0 | 682.0 | 682.0 | 682.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SW6 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 11204.2 | 7042.0 | 10745.9 | 11912.3 | 10662.7 | 6964.8 | 5100.2 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 | 120.5 |
| PERCENT REDUCTION: | 0.0 | 36.8 | 4.1 | -6.3 | 4.4 | 37.8 | 30.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| COUNTY: 03 WOOD, OHIO | | | | | | | | | |
|-----------------------|------------------------------------|-------------------------------------|----------------------------------|-------------------------------|-------------------------------|---------------------------------------|-----------------------------|---|--|
| WOODVILLE, OH | | | | | | | | | |
| PORTAGE RIVER | | | | | | | | | |
| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL WASH- DOWN LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
| 1 CROPLAND | 3133.2 | 26790.1 | 29248.2 | 32491.6 | 29248.2 | 3489.8 | 12472.1 | 4370.5 | 696.8 |
| 2 CROPLAND | 9067.9 | 6947.8 | 85021.9 | 44321.2 | 11292.0 | 36203.3 | 37777.1 | 9331.2 | 5.2 |
| 3 CROPLAND | 7138.6 | 3565.7 | 6694.1 | 7426.2 | 6694.1 | 7138.6 | 7138.5 | 1188.6 | 6.0 |
| 4 CROPLAND | 5232.2 | 5232.2 | 4966.4 | 5443.0 | 4966.4 | 2089.1 | 2089.1 | 6779.0 | 0.0 |
| 5 CROPLAND | 4374.5 | 4287.0 | 4102.1 | 4558.7 | 4102.1 | 4374.5 | 4374.5 | 3251.3 | 158.1 |
| 6 CROPLAND | 8908.2 | 8908.2 | 83536.9 | 92673.7 | 83536.9 | 35568.5 | 35568.5 | 80323.3 | 0.0 |
| 7 CROPLAND | 227730.6 | 198827.2 | 213549.6 | 236906.4 | 213549.6 | 64352.5 | 97901.3 | 135391.3 | 0.0 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS/ACRE) | 1403.6 (ACRES) | | | | |
| GRASSLAND AND PASTURE | 169.0 | 169.0 (TONS) | OTHER LAND USE AREA | 6696.5 (ACRES) | | | | | |
| WOODLAND | 278.5 | 278.5 (TONS) | MISSING DATA | 2955.4 (ACRES) | | | | | |
| SYNARY TOTAL | 232678.3 | 203196.8 | 219209.6 | 242027.0 | 218209.6 | 66669.9 | 100219.3 | 152902.3 | 0.7 |
| PERCENT REDUCTION: | 8.0 | 12.7 | 6.2 | -4.0 | 6.2 | 71.6 | 95.9 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 10 HANCOCK, OHIO

WOODVILLE, OH

BASIN: PORTAGE RIVER

| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL P. 3/4 AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
|---------------------------------------|---|--------------------------------|--------------------------------|---------------------------------------|---|------------------------------------|---------------------------------------|
| CROPLAND 1 | 75918.2 15.5 | 17044.9 3.6 | 71613.4 15.0 | 78775.7 16.5 | 72186.2 15.1 | 9739.4 2.0 | 4780.0 |
| CROPLAND 2 | 172788.1 5.5 | 93673.0 3.0 | 162924.6 5.2 | 179217.1 5.7 | 164228.0 5.2 | 22157.8 2.2 | 31589.7 |
| CROPLAND 3 | 658.6 6.6 | 296.5 3.0 | 613.8 6.2 | 675.2 6.4 | 618.7 6.3 | 650.6 6.6 | 98.8 6.6 |
| CROPLAND 4 | 12775.5 8.8 | 12775.5 8.8 | 12052.4 8.8 | 13257.6 9.9 | 12198.8 8.8 | 5156.4 9.3 | 15588.3 |
| CROPLAND 5 | 1268.7 1.4 | 1268.7 1.4 | 1196.9 1.4 | 1316.5 1.5 | 1206.4 1.4 | 1268.7 1.4 | 979.7 0.0 |
| CROPLAND 6 | 24819.1 1.2 | 24819.1 1.2 | 23014.2 1.1 | 25755.6 1.2 | 23601.5 1.1 | 10021.3 0.5 | 20885.3 |
| CROPLAND 7 | 288124.2 3.9 | 149877.7 2.0 | 271815.3 3.7 | 298996.7 4.1 | 273989.6 3.7 | 48996.2 0.7 | 71765.8 |
| VINEYARDS AND ORCH. | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 622.7 (ACRES) | 0.0 |
| GRASSLAND AND PASTURE | 131.2 2332.7 | 131.2 (TONS) 2332.7 (ACRES) | 131.2 (TONS) 2332.7 (ACRES) | OTHER LAND JSE AREA | 3084.8 (ACRES) | 0.0 | 0.0 |
| WOODLAND | 433.8 5574.7 | 433.8 (TONS) 5574.7 (ACRES) | 433.8 (TONS) 5574.7 (ACRES) | MISSING DATA | 4566.8 (ACRES) | 0.0 | 0.0 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 306245.3 3.5 | 159591.6 1.8 | 288944.6 3.3 | 317779.0 3.7 | 291251.1 3.4 | 52575.2 0.6 | 85640.0 |
| PERCENT REDUCTION: | 0.0 | 47.9 | 5.6 | -3.4 | 4.9 | 82.8 | 59.1 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: PORTAGE RIVER | | COUNTY: 62 ALL IN BASIN | | | | | | | | | |
|---------------------------------------|--|---|--------------------------|----------------------------|----------------------------------|--|-------------------------------------|---------------------------------------|--------------------------------|--------|------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLUJING AND EXISTING ONLY (TONS) | FALL PLUJING ONLY (TONS) | WINTER COVERED CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. 3000 P. 304 AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | | |
| | | | | | | | | | | | |
| 230PLAND 1 | 108165.0 | 8.3 | 3.4 | 101842.1 | 112353.7 | 102447.4 | 13731.4 | 43553.3 | 12942.9 | 5592.4 | 14.4 |
| 230PLAND 2 | 265380.4 | 165438.7 | 249876.4 | 251164.7 | 35690.0 | 106744.1 | 72118.3 | 37419.4 | 5.4 | | |
| 230PLAND 3 | 13186.2 | 5671.1 | 12483.3 | 13840.4 | 13186.2 | 13186.2 | 1980.4 | 1890.4 | 7.0 | | |
| 230PLAND 4 | 18007.7 | 18007.7 | 16958.8 | 18700.7 | 17055.2 | 7247.5 | 20287.3 | 0.0 | 0.0 | | |
| 230PLAND 5 | 5749.9 | 5662.4 | 5401.3 | 5980.8 | 5410.1 | 5749.9 | 4210.7 | 154.1 | 1.6 | | |
| 230PLAND 6 | 116536.0 | 116536.0 | 109475.6 | 121229.3 | 109643.4 | 46651.0 | 103630.9 | 0.0 | 0.0 | | |
| 230PLAND 7 | 527026.0 | 355754.0 | 496077.5 | 547783.4 | 498168.8 | 120276.0 | 213120.7 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 2144.9 | 0.0 | | | | | |
| GRASSLAND AND PASTURE | 315.1 | 315.1 | 315.1 | 315.1 | 10247.4 | 0.0 | | | | | |
| WOODLAND | 730.6 | 730.6 | 730.6 | 730.6 | 8549.8 | 0.0 | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | |
| PERCENT REDUCTION: | 0.0 | 32.4 | 5.9 | -3.9 | 5.5 | 77.0 | 57.6 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SANDUSKY RIVER | | FREQUENT FLOOD | | COUNTY: 02 CRAWFORD, OHIO | | | | | | | | | | | | | |
|---------------------------------------|--|-------------------------------|--|-------------------------------|-------------------------------|---------------------------------------|-----------------------------|------------------------------------|---------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO FLOW ONLY (TONS/ACRE) | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) |
| CROPLAND 1 | 227528.1 | 127095.9 | 217099.7 | 241748.6 | 220891.8 | 32233.2 | 96595.4 | 27376.9 | 27376.9 | 27376.9 | 27376.9 | 27376.9 | 27376.9 | 27376.9 | 27376.9 | 27376.9 | 27376.9 |
| CROPLAND 2 | 313984.2 | 225478.7 | 299593.2 | 333608.2 | 304426.3 | 44481.1 | 136059.7 | 81072.7 | 55176.1 | 55176.1 | 55176.1 | 55176.1 | 55176.1 | 55176.1 | 55176.1 | 55176.1 | 55176.1 |
| CROPLAND 3 | 19143.8 | 18173.9 | 18266.4 | 20340.3 | 18385.4 | 17143.8 | 19143.8 | 10897.3 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 |
| CROPLAND 4 | 20855.4 | 20855.4 | 19599.3 | 22158.8 | 20247.1 | 9037.3 | 9037.3 | 25380.5 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| CROPLAND 5 | 4929.8 | 4929.8 | 4763.9 | 5238.0 | 4786.1 | 4929.8 | 4929.8 | 4791.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CROPLAND 10 | 24789.6 | 1974.4 | 23653.4 | 26339.0 | 24066.6 | 3511.9 | 10742.2 | 432.4 | 432.4 | 432.4 | 432.4 | 432.4 | 432.4 | 432.4 | 432.4 | 432.4 | 432.4 |
| VINEYARDS AND ORCH. | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 |
| PASTURE | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 | 375.3 |
| WOODLAND | 1764.2 | 1764.2 | 1764.2 | 1764.2 | 1764.2 | 1764.2 | 1764.2 | 1764.2 | 1764.2 | 1764.2 | 1764.2 | 1764.2 | 1764.2 | 1764.2 | 1764.2 | 1764.2 | 1764.2 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 643596.0 | 420408.1 | 614201.9 | 683674.4 | 624490.7 | 121149.1 | 294492.2 | 181747.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| PERCENT REDUCTION: | 0.0 | 34.7 | 4.6 | -6.2 | 2.7 | 81.2 | 50.2 | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: SANDUSKY RIVER | | FREMONT, OH | | COUNTY: OS SENECA, OHIO | | | | |
|---------------------------------------|--|--|--------------------------|--------------------------|----------------------------------|--|---------------------------------|---------------------------------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. TILLAGE AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
| CROPLAND 1 | 49557.3 | 45207.7 | 45022.7 | 96359.1 | 49557.3 | 59677.5 | 13005.1 | 5752.6 |
| | 6.9 | 3.5 | 6.5 | 7.4 | 6.9 | 3.1 | 1.0 | 10.7 |
| CROPLAND 2 | 345769.2 | 279724.7 | 324262.0 | 372030.2 | 345769.2 | 51063.0 | 94233.5 | 64447.5 |
| | 3.7 | 3.0 | 3.5 | 3.9 | 3.7 | 1.5 | 1.5 | 4.0 |
| CROPLAND 3 | 22613.8 | 22613.8 | 21468.8 | 24331.5 | 22613.8 | 22613.8 | 14295.0 | 0.0 |
| | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.5 | 1.5 | 0.0 |
| CROPLAND 4 | 20905.3 | 20905.3 | 19846.8 | 22493.1 | 20905.3 | 9261.9 | 22466.8 | 0.0 |
| | .9 | .9 | .9 | 1.0 | .9 | .4 | .4 | 0.0 |
| CROPLAND 5 | 3400.7 | 3400.7 | 3228.5 | 3659.0 | 3400.7 | 3400.7 | 3434.8 | 0.0 |
| | 1.0 | 1.0 | .9 | 1.1 | 1.0 | 1.0 | 1.0 | 0.0 |
| CROPLAND 6 | 350.3 | 350.3 | 332.6 | 377.0 | 350.3 | 155.2 | 345.9 | 0.0 |
| | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .4 | .4 | 0.0 |
| CROPLAND 10 | 42657.1 | 1047.3 | 40497.2 | 45896.8 | 42657.1 | 6299.6 | 355.0 | 355.0 |
| | 119.9 | 3.1 | 113.9 | 129.0 | 119.9 | 17.7 | 53.1 | 119.9 |
| CROPLAND | 525253.7 | 373249.8 | 498658.6 | 565146.5 | 525253.7 | 104020.0 | 247195.3 | 148136.9 |
| | 3.5 | 2.5 | 3.4 | 3.8 | 3.5 | .7 | 1.7 | |
| VINEYARDS AND ORCH. | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 3039.4 | (ACRES) | |
| | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 | | | |
| | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | | | |
| PASTURE AND PASTURE | 219.4 | 219.4 | 219.4 | 219.4 | 219.4 | 10796.0 | (ACRES) | |
| | 3348.3 | 3348.3 | 3348.3 | 3348.3 | 3348.3 | | | |
| | .07 | .07 | .07 | .07 | .07 | | | |
| WOODLAND | 2165.4 | 2165.4 | 2165.4 | 2165.4 | 2165.4 | 77783.6 | (ACRES) | |
| | 18053.5 | 18053.5 | 18053.5 | 18053.5 | 18053.5 | | | |
| | .12 | .12 | .12 | .12 | .12 | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 769750.9 | 548091.9 | 730958.5 | 827939.6 | 769750.9 | 158244.7 | 247384.1 | |
| | 3.1 | 2.2 | 3.0 | 3.3 | 3.1 | .6 | 1.5 | |
| PERCENT REDUCTION: | 9.0 | 28.4 | 5.0 | -7.6 | 0.0 | 79.4 | 52.7 | |

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LAND MANAGEMENT ALTERNATIVES IN THE LAKE ERIE DRAINAGE BASIN. (U)
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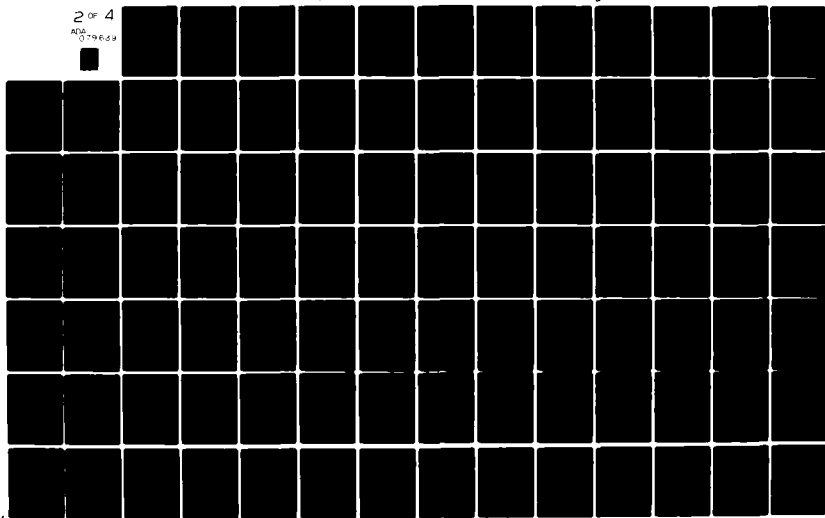
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LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SANDUSKY RIVER | | FREMONT, OH | | COUNTY: ON MURON, OHIO | | | | | | | | | | | | | | | |
|---------------------------------------|--|--------------------------------------|--|--------------------------------------|---------------------------------|-------------------------------|---------------------------------------|-----------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO F PLOUGHING ONLY (TONS/ACRE) | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO F PLOUGHING ONLY (TONS/ACRE) | FALL PLOUGHING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL WASH-UP AREA (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) |
| 1 | 6463.2 | 3385.3 | 6156.6 | 9.1 | 6749.7 | 6182.2 | 894.1 | 2707.3 | 677.1 | 677.1 | 677.1 | 677.1 | 677.1 | 677.1 | 677.1 | 677.1 | 677.1 | 677.1 | 677.1 |
| 2 | 11716.3 | 10502.0 | 11160.6 | 3.2 | 12272.0 | 11206.9 | 1620.8 | 4908.8 | 1494.1 | 1494.1 | 1494.1 | 1494.1 | 1494.1 | 1494.1 | 1494.1 | 1494.1 | 1494.1 | 1494.1 | 1494.1 |
| 3 | 95.1 | 88.9 | 90.5 | 2.3 | 99.6 | 90.5 | 95.1 | 95.1 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 |
| 4 | 1746.0 | 1746.0 | 1663.2 | 1.3 | 1828.4 | 1670.1 | 731.5 | 731.5 | 1255.3 | 1255.3 | 1255.3 | 1255.3 | 1255.3 | 1255.3 | 1255.3 | 1255.3 | 1255.3 | 1255.3 | 1255.3 |
| 5 | 1540.5 | 1540.5 | 1467.5 | .9 | 1613.6 | 1473.5 | 1540.5 | 1540.5 | 1698.2 | 1698.2 | 1698.2 | 1698.2 | 1698.2 | 1698.2 | 1698.2 | 1698.2 | 1698.2 | 1698.2 | 1698.2 |
| 6 | 21561.1 | 17262.7 | 20538.4 | 2.9 | 22583.7 | 20623.6 | 4882.0 | 9983.3 | 7156.2 | 7156.2 | 7156.2 | 7156.2 | 7156.2 | 7156.2 | 7156.2 | 7156.2 | 7156.2 | 7156.2 | 7156.2 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 197.7 | 197.7 | 197.7 | 197.7 | 197.7 | 197.7 | 197.7 | 197.7 | 197.7 | 197.7 | 197.7 | 197.7 | 197.7 |
| GRASSLAND AND PASTURE | 2.5 | 2.5 | 2.5 | 0.3 | 2.5 | 2.5 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 |
| WOODLAND | 52.6 | 52.6 | 52.6 | 0.7 | 52.6 | 52.6 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 21749.1 | 17424.3 | 20728.1 | 2.6 | 22774.0 | 20805.8 | 4967.5 | 10100.5 | 8085.3 | 8085.3 | 8085.3 | 8085.3 | 8085.3 | 8085.3 | 8085.3 | 8085.3 | 8085.3 | 8085.3 | 8085.3 |
| PERCENT REDUCTION: | 0.0 | 19.9 | 9.7 | -4.7 | 4.3 | 77.2 | 53.5 | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SANDUSKY RIVER | | CUMULATIVE | | | | | | | | | |
|---------------------------------------|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| LAND USE | | CUMULATIVE | | | | | | | | | |
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO FLOWING ONLY (TONS) | LOSS TO FLOWING ONLY (TONS) | LOSS TO FLOWING ONLY (TONS) | LOSS TO FLOWING ONLY (TONS) | LOSS TO FLOWING ONLY (TONS) | LOSS TO FLOWING ONLY (TONS) | LOSS TO FLOWING ONLY (TONS) | LOSS TO FLOWING ONLY (TONS) | LOSS TO FLOWING ONLY (TONS) | LOSS TO FLOWING ONLY (TONS) |
| | | | | | | | | | | | |
| CROPLAND 1 | 11406.7 | 5547.2 | 10939.5 | 12130.3 | 10453.4 | 1362.0 | 4596.7 | 1230.6 | 1230.6 | 1230.6 | 1230.6 |
| CROPLAND 2 | 11305.0 | 11260.1 | 10440.9 | 12022.1 | 10756.6 | 1349.8 | 4553.7 | 960.2 | 163.1 | 163.1 | 163.1 |
| CROPLAND 3 | 6237.5 | 2090.5 | 5941.5 | 6633.2 | 5935.0 | 6237.5 | 6237.5 | 696.8 | 696.8 | 696.8 | 696.8 |
| CROPLAND 4 | 193.7 | 193.7 | 184.7 | 206.0 | 184.3 | 78.0 | 78.0 | 187.4 | 187.4 | 187.4 | 187.4 |
| CROPLAND 5 | 403.7 | 403.7 | 387.1 | 429.3 | 384.1 | 403.7 | 403.7 | 299.0 | 299.0 | 299.0 | 299.0 |
| CROPLAND 6 | 2302.9 | 2302.9 | 2208.4 | 2449.0 | 2191.2 | 928.1 | 928.1 | 2115.2 | 2115.2 | 2115.2 | 2115.2 |
| CROPLAND 7 | 31849.5 | 21758.2 | 30542.1 | 33869.9 | 30304.6 | 10399.1 | 16799.7 | 13133.6 | 13133.6 | 13133.6 | 13133.6 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRASSLAND AND PASTURE | 38.5 | 721.5 | 38.5 | 721.5 | 766.0 | 766.0 | 766.0 | 766.0 | 766.0 | 766.0 | 766.0 |
| WOODLAND | 59.3 | 1015.6 | 59.3 | 1015.6 | 187.8 | 187.8 | 187.8 | 187.8 | 187.8 | 187.8 | 187.8 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | 31026.8 | 31026.8 | 34396.7 | 30786.3 | 10589.0 | 17110.3 | 15856.5 | 15856.5 | 15856.5 | 15856.5 |
| PERCENT REDUCTION: | | 0.0 | 31.6 | 4.1 | -6.3 | 4.8 | 67.3 | 47.1 | 47.1 | 47.1 | 47.1 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SAROUSKY RIVER | | COUNTY: 10 HARCOCCK, OHIO | | | | | | | | | |
|---------------------------------------|---|---|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|--|------------------------------------|---------------------------------------|--------------------------------|--|
| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | REDUCE LOSS TO T. AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER ONLY (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: MISCELLANEOUS PLOW AREA (TONS/ACRE) | SOIL WASH. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | |
| | | | | | | | | | | | |
| CROPLAND 2 | 512.3 | 512.3 | 983.3 | 531.6 | 487.2 | 65.7 | 206.9 | 219.9 | 0.0 | 0.0 | |
| 346 | 2.3 | 2.3 | 2.2 | 2.4 | 2.2 | .3 | .3 | | 0.0 | 0.0 | |
| CROPLAND 8 | 26.4 | 26.4 | 24.9 | 27.4 | 25.1 | 18.7 | 10.7 | 22.2 | 0.0 | 0.0 | |
| 346 | 1.2 | 1.2 | 1.1 | 1.2 | 1.1 | .5 | .5 | | 0.0 | 0.0 | |
| CROPLAND | 538.7 | 538.7 | 508.2 | 559.0 | 512.3 | 76.4 | 217.5 | 242.1 | | | |
| 2.2 | 2.2 | 2.2 | 2.1 | 2.3 | 2.1 | .3 | .3 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 0.0 (ACRES) | | | | | | | |
| 0.00 | 0.00 | 0.00 (TONS/ACRE) | | | | | | | | | |
| GRASSLAND AND PASTURE | 0.0 | 0.0 (TONS) | OTHER LAND USE AREA | 22.2 (ACRES) | | | | | | | |
| 0.00 | 0.00 | 0.00 (TONS/ACRE) | | | | | | | | | |
| WOODLAND | 1.7 | 1.7 (TONS) | MISSING DATA | 0.0 (ACRES) | | | | | | | |
| 39.5 | 39.5 | 39.5 (ACRES) | | | | | | | | | |
| .04 | .04 | .04 (TONS/ACRE) | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 540.4 | 540.4 | 509.3 | 560.7 | 514.0 | 78.1 | 219.3 | 281.6 | | | |
| 1.9 | 1.9 | 1.9 | 1.8 | 2.0 | 1.8 | .3 | .3 | | | | |
| PERCENT REDUCTION: | 0.0 | 0.0 | 5.6 | -3.8 | 9.9 | 85.5 | 59.4 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SANDUSKY RIVER | | FARMONT, OH | | COUNTY: 11 WYANDOT, OH | | | |
|---------------------------------------|--|-----------------------------------|-------------------------------|-------------------------------|---------------------------------------|-----------------------------|---|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO FLOoding ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL WASH LOSS TO FLOoding ONLY (TONS/ACRE) |
| CROPLAND 1 | 280389.6 | 2219.1 | 271762.1 | 299431.2 | 37744.7 | 116469.4 | 22723.7 |
| SWG | 12.3 | 3.6 | 12.0 | 13.2 | 1.7 | 5.1 | 12.3 |
| CROPLAND 2 | 170125.9 | 130145.3 | 164891.1 | 141903.7 | 22901.6 | 70667.5 | 37139.9 |
| SWG | 3.8 | 2.9 | 3.7 | 4.3 | .5 | 1.5 | 4.1 |
| CROPLAND 3 | 126680.8 | 11820.1 | 12271.3 | 13537.3 | 12368.6 | 12668.4 | 3956.2 |
| SWG | 3.2 | 3.0 | 3.1 | 3.6 | 3.2 | 3.2 | 3.2 |
| CROPLAND 4 | 24237.3 | 24237.3 | 23401.5 | 25915.2 | 10067.9 | 10067.9 | 26190.5 |
| SWG | .9 | .9 | .9 | 1.0 | .4 | .4 | 0.8 |
| CROPLAND 5 | 12405.9 | 11013.0 | 12024.2 | 13264.7 | 12405.9 | 12405.9 | 311.4 |
| SWG | 1.5 | 1.3 | 1.5 | 1.6 | 1.5 | 1.5 | 7.5 |
| CROPLAND 6 | 796.4 | 796.4 | 771.0 | 851.5 | 330.2 | 330.2 | 0.0 |
| SWG | 1.2 | 1.2 | 1.2 | 1.3 | .5 | .5 | 0.0 |
| CROPLAND 7 | 5813.6 | 5813.6 | 5634.7 | 6216.1 | 5813.6 | 5813.6 | 0.0 |
| SWG | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | 1.1 | 0.0 |
| CROPLAND 8 | 119291.8 | 3617.6 | 115621.2 | 127550.5 | 16058.5 | 49532.3 | 1116.3 |
| SWG | 106.8 | 3.2 | 103.5 | 114.2 | 14.4 | 44.4 | 186.4 |
| CROPLAND 9 | 625721.3 | 269702.4 | 506468.0 | 669040.2 | 117983.7 | 277967.3 | 112917.0 |
| SWG | 5.5 | 2.4 | 5.4 | 5.9 | 1.0 | 2.5 | 5.5 |
| VINEYARDS AND ORCH. | 161.2 | 151.0 (TONS) | 151.0 (TONS) | 151.0 (TONS) | 4141.5 (ACRES) | | |
| | 66.7 | 66.7 (ACRES) | 66.7 (ACRES) | 66.7 (ACRES) | | | |
| | 2.42 | 2.26 (TONS/ACRE) | 2.26 (TONS/ACRE) | 2.26 (TONS/ACRE) | | | |
| GRASSLAND AND PASTURE | 422.1 | 422.1 (TONS) | 422.1 (TONS) | 422.1 (TONS) | 10212.8 (ACRES) | | |
| | 3466.9 | 3466.9 (ACRES) | 3466.9 (ACRES) | 3466.9 (ACRES) | | | |
| | .12 | .12 (TONS/ACRE) | .12 (TONS/ACRE) | .12 (TONS/ACRE) | | | |
| WOODLAND | 2080.8 | 2080.8 (TONS) | 2080.8 (TONS) | 2080.8 (TONS) | 101868.8 (ACRES) | | |
| | 11416.2 | 11416.2 (ACRES) | 11416.2 (ACRES) | 11416.2 (ACRES) | | | |
| | .18 | .18 (TONS/ACRE) | .18 (TONS/ACRE) | .18 (TONS/ACRE) | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | |
| | 1129086.9 | 489355.2 | 1044414.9 | 1206837.0 | 216765.4 | 504205.5 | 223735.5 |
| | 4.9 | 2.1 | 4.8 | 5.3 | .9 | 2.2 | |
| PERCENT REDUCTION: | 8.0 | 56.7 | 3.1 | -6.9 | 2.3 | 48.8 | 95.3 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: SANDUSKY RIVER | | FARMINGTON | | COUNTY: 12 HARDIN, OHIO | | | | | | | | | | | | EXISTING SOIL LOSS BY FACTOR (TONS/ACRE) | | | |
|---------------------------------------|-------------------------------------|---|---|-----------------------------------|-----------------------------------|---|--|---|--|--|--|--|--|---------|--|---|--|--|----------------|
| LAND USE | EXISTING GROSS EROSION (TONS) | POT-REDUCE LOSS TO AND EXISTING (TONS) | SOIL SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW (TONS) | SOIL MGMT. GROUP LAND AREA (ACRES) | | | | | | | | | | | 1223.2 11.0 |
| CROPLAND 1 SHG | 13710.9 9.9 | 3700.6 2.7 | 13176.6 9.6 | 14532.2 10.5 | 15230.8 9.6 | 1789.4 1.3 | 5002.3 0.2 | 1370.8 | | | | | | | | | | | |
| CROPLAND 2 SHG | 26784.8 3.7 | 16312.4 2.3 | 25726.1 3.5 | 26372.8 4.0 | 25832.0 3.6 | 3093.7 0.5 | 11329.3 1.5 | 7161.1 | | | | | | | | | | | 2513.1 7.2 |
| CROPLAND 3 SHG | 668.0 2.3 | 668.0 2.3 | 641.6 2.2 | 707.6 2.4 | 644.2 2.2 | 668.0 2.3 | 669.3 2.3 | 289.1 | | | | | | | | | | | 0.0 0.0 |
| CROPLAND 4 SHG | 4084.3 0.8 | 4084.3 0.8 | 3922.9 0.8 | 4326.4 0.9 | 3939.3 0.8 | 1727.4 0.3 | 1727.4 0.3 | 5200.0 | | | | | | | | | | | 0.0 0.0 |
| CROPLAND 5 SHG | 399.2 1.4 | 399.2 1.4 | 383.4 1.3 | 422.8 1.5 | 385.0 1.3 | 399.2 1.4 | 393.2 1.4 | 289.1 | | | | | | | | | | | 0.0 0.0 |
| CROPLAND 8 SHG | 69.4 0.8 | 69.4 0.8 | 66.8 0.8 | 73.7 0.8 | 67.1 0.8 | 29.4 0.3 | 29.4 0.3 | 89.0 | | | | | | | | | | | 0.0 0.0 |
| CROPLAND 9 SHG | 73.1 1.1 | 73.1 1.1 | 70.3 1.2 | 77.5 1.2 | 70.5 1.1 | 73.1 1.1 | 73.1 1.1 | 66.7 | | | | | | | | | | | 0.0 3.0 |
| CROPLAND 10 SHG | 4597.9 3.2 | 25315.2 1.7 | 43987.7 3.0 | 46513.0 3.4 | 44160.6 3.1 | 8180.2 0.6 | 20027.1 1.4 | 10077.9 | | | | | | | | | | | |
| VINEYARDS AND ORCH. | 0.0 0.00 | 0.0 0.00 | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 355.8 (ACRES) | | | | | | | | | | | | | | | |
| PASTURE | 10.5 177.9 | 10.5 (TONS) 177.9 (ACRES) 0.06 (TONS/ACRE) | OTHER LAND USE AREA | 845.1 (ACRES) | | | | | | | | | | | | | | | |
| WOODLAND | 51.6 1023.0 | 51.6 (TONS) 1023.0 (ACRES) 0.05 (TONS/ACRE) | MISSING DATA | 11875.9 (ACRES) | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | | 27554.5 | | | | | |
| 80596.9 | | | | | | | | | | | | | | 35305.3 | | | | | |
| 2.9 | | | | | | | | | | | | | | 1.3 | | | | | |
| PERCENT REDUCTION: | | | | | | | | | | | | | | 56.2 | | | | | |
| 0.0 | | | | | | | | | | | | | | | | | | | |

LAKE ERIE WASTE-WATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SANDUSKY RIVER | | SCENARIO: 15 PARTIAL ONTO | | | | | | | | | |
|---------------------------------------|--|---------------------------------|---------------------------|--------------------|----------------------------------|------------------------|-----------------------------------|-----------------------------------|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLANTING ONLY (TONS) | FALL PLANTING ONLY (TONS) | WINTER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE (TONS) | SOIL MGMT. 3RD PLANT AREA (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) | | | |
| CROPLAND 1 | 9611.4 | 2735.5 | 9218.4 | 10218.4 | 1179.1 | 3859.9 | 911.4 | 911.4 | | | |
| SAG | 10.5 | 3.0 | 10.1 | 10.0 | 1.3 | 4.2 | 10.5 | 10.5 | | | |
| CROPLAND 2 | 4998.6 | 4998.6 | 4794.2 | 4757.0 | 613.2 | 2005.3 | 2001.6 | 0.0 | | | |
| SAG | 2.5 | 2.5 | 2.4 | 2.4 | .3 | 1.0 | 0.0 | 0.0 | | | |
| CROPLAND 3 | 17070.9 | 7605.4 | 16372.9 | 16149.8 | 17070.9 | 17070.9 | 2335.1 | 2335.1 | | | |
| SAG | 7.3 | 3.0 | 7.0 | 7.4 | 7.3 | 7.3 | 7.3 | 7.3 | | | |
| CROPLAND 4 | 3954.2 | 3954.2 | 3792.5 | 4204.1 | 1587.6 | 1587.6 | 4314.3 | 0.0 | | | |
| SAG | .9 | .9 | .9 | 1.0 | .4 | .4 | 0.0 | 0.0 | | | |
| CROPLAND 5 | 5631.9 | 2514.1 | 5401.6 | 5987.8 | 5631.9 | 5631.9 | 978.5 | 711.7 | | | |
| SAG | 5.8 | 2.6 | 5.5 | 6.1 | 5.5 | 5.3 | 7.4 | 7.4 | | | |
| CROPLAND 6 | 160.1 | 160.1 | 153.5 | 170.2 | 152.3 | 64.3 | 133.4 | 0.0 | | | |
| SAG | 1.2 | 1.2 | 1.2 | 1.3 | .5 | .5 | 0.0 | 0.0 | | | |
| CROPLAND 9 | 211.9 | 211.9 | 203.3 | 225.3 | 211.7 | 211.9 | 177.9 | 0.0 | | | |
| SAG | 1.2 | 1.2 | 1.1 | 1.3 | 1.2 | 1.2 | 3.0 | 3.0 | | | |
| CROPLAND 10 | 1693.8 | 66.7 | 1624.6 | 1800.9 | 1612.0 | 600.0 | 22.2 | 22.2 | | | |
| SAG | 76.3 | 3.0 | 75.2 | 81.1 | 72.6 | 33.5 | 76.3 | 76.3 | | | |
| CROPLAND | 43332.8 | 21646.5 | 41561.0 | 46671.4 | 25566.7 | 31112.4 | 10475.0 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 66.7 | 66.7 | 2.4 | | | | | |
| GRASSLAND AND PASTURE | 9.4 | 9.4 | 711.7 | 711.7 | 711.7 | | | | | | |
| WOODLAND | 32.2 | 32.2 | 27710.4 | 27710.4 | 27710.4 | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 148112.5 | 74058.9 | 142062.2 | 157464.1 | 90960.5 | 105382.9 | 39185.9 | | | | |
| PERCENT REDUCTION: | 0.0 | 50.0 | 4.1 | -6.3 | 38.7 | 28.2 | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: SANDUSKY RIVER | | FRENCHTOWN | | COUNTY: IN RICHLAND, OHIO | | | | | | |
|---------------------------------------|------------------------------------|---|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---|--|
| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | POTENTIAL LOSS TO FLOWING AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL 3-04 AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | |
| CROPLAND 1 | 10931.1 | 8517.7 | 10797.8 | 12130.8 | 10931.1 | 2132.9 | 5990.9 | 1756.9 | 1756.9 | |
| SW6 | 6.2 | 4.8 | 6.1 | 6.9 | 6.2 | 1.2 | 3.4 | 6.2 | 6.2 | |
| CROPLAND 2 | 13655.1 | 10855.9 | 13486.6 | 15153.8 | 13655.1 | 2664.4 | 7493.7 | 3716.0 | 3536.1 | |
| SW5 | 3.7 | 2.9 | 3.6 | 4.1 | 3.7 | .7 | 2.8 | 3.4 | 3.4 | |
| CROPLAND 3 | 1129.0 | 1129.0 | 1115.2 | 1252.9 | 1129.0 | 1129.0 | 1129.0 | 934.1 | 0.0 | |
| SW6 | 1.2 | 1.2 | 1.2 | 1.3 | 1.2 | 1.2 | 1.2 | 0.8 | 0.8 | |
| CROPLAND 4 | 628.1 | 628.1 | 620.5 | 697.1 | 628.1 | 344.7 | 344.7 | 1280.9 | 0.0 | |
| SW5 | .5 | .5 | .5 | .6 | .5 | .3 | .3 | 0.8 | 0.8 | |
| CROPLAND 5 | 112.2 | 112.2 | 110.4 | 124.5 | 112.2 | 112.2 | 112.2 | 155.7 | 0.0 | |
| SW6 | .7 | .7 | .7 | .8 | .7 | .7 | .7 | 0.8 | 0.8 | |
| CROPLAND 10 | 10932.3 | 622.7 | 10799.0 | 12132.2 | 10932.3 | 2133.1 | 5990.4 | 155.7 | 155.7 | |
| SW6 | 78.2 | 4.0 | 69.4 | 77.9 | 78.2 | 13.7 | 39.3 | 78.2 | 78.2 | |
| CROPLAND 11 | 37387.8 | 21865.6 | 36931.9 | 41491.3 | 37387.8 | 6516.3 | 21077.3 | 7317.3 | | |
| SW6 | 4.7 | 2.8 | 4.7 | 5.2 | 4.7 | 1.1 | 2.7 | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 311.4 (ACRES) | | | | | |
| | 0.0 | 0.0 (ACRES) | AREA ONLY | | | | | | | |
| | 0.0 | 0.0 (TONS/ACRE) | | | | | | | | |
| GRASSLAND AND PASTURE | 35.5 | 35.5 (TONS) | OTHER LAND | | 778.4 (ACRES) | | | | | |
| | 449.8 | 449.8 (ACRES) | USE AREA | | | | | | | |
| | .08 | .08 (TONS/ACRE) | | | | | | | | |
| WOODLAND | 139.7 | 139.7 (TONS) | MISSING DATA | | 177.9 (ACRES) | | | | | |
| | 1112.0 | 1112.0 (ACRES) | | | | | | | | |
| | .13 | .13 (TONS/ACRE) | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | |
| | 38268.3 | 22454.7 | 37803.9 | 42446.9 | 38268.3 | 8454.7 | 21632.1 | 9652.0 | | |
| | 4.0 | 2.3 | 3.9 | 4.4 | 4.0 | .9 | 2.2 | | | |
| PERCENT REDUCTION: | | | | | | | | | | |
| | 0.0 | 41.3 | 1.2 | -10.9 | 0.0 | 76.9 | 43.4 | | | |

LAKE ERIE WASTE-WATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : PLST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 62 ALL IN BASIN

BASIN: SANDUSKY RIVER

PRECEDENCE

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO FLOODING AND EXISTING ONLY (TONS) | FALL FLOODING ONLY (TONS) | WINTER CROPPING (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
|---------------------------------------|--|---|---------------------------|-----------------------------|---------------------------------------|-----------------------------|---------------------------------------|
| 346 1 | 649686.1 | 27836.9 | 624172.3 | 693590.5 | 90561.1 | 277706.2 | 61452.6 |
| 346 2 | 89851.3 | 689769.5 | 859239.9 | 961208.9 | 128253.1 | 390415.9 | 166492.7 |
| 346 3 | 79618.9 | 63589.6 | 76208.1 | 85051.9 | 79618.9 | 79618.9 | 7109.2 |
| 346 4 | 76600.2 | 76600.2 | 73022.6 | 81429.6 | 32836.2 | 32836.2 | 86800.0 |
| 346 5 | 28823.9 | 24313.1 | 27706.3 | 30739.7 | 28823.9 | 28823.9 | 1023.0 |
| 346 6 | 3705.8 | 3705.8 | 3558.2 | 3948.8 | 1418.4 | 1518.0 | 0.0 |
| 346 7 | 6098.7 | 6098.7 | 5908.2 | 6318.9 | 6098.7 | 6098.7 | 0.0 |
| 346 8 | 199360.6 | 7368.7 | 192195.4 | 213719.2 | 20218.9 | 85872.2 | 2003.1 |
| 346 9 | 192673.5 | 114986.5 | 186241.6 | 207670.6 | 1904173.5 | 902890.3 | 465396.9 |
| 346 10 | 270.9 | 260.7 (TONS) | 4.0 | 4.5 | 4.1 | 1.7 | |
| VINEYARDS AND ORCH. | 173.0 | 173.0 (ACRES) | AREA ONLY | 10712.0 (ACRES) | | | |
| 346 11 | 1113.2 | 1113.2 (TONS) | 35876.8 (ACRES) | | | | |
| 346 12 | 12782.7 | 12782.7 (ACRES) | JSE AREA | | | | |
| 346 13 | 6397.6 | 6397.6 (TONS) | MISSING DATA | 228183.6 (ACRES) | | | |
| 346 14 | 52188.5 | 52188.5 (ACRES) | | | | | |
| 346 15 | 12 | 12 (TONS/ACRE) | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 2789266.7 | 1655505.1 | 2674480.4 | 2980948.3 | 577262.4 | 1302276.9 | 758720.7 |
| PERCENT REDUCTION: | 0.0 | 40.6 | 4.1 | -6.9 | 2.0 | 79.3 | 53.3 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SANDUSKY RIVER | | COUNTY: 02 CRAWFORD, OHIO | | | | | | | | | |
|---------------------------------------|--|--|--|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|-----------------------------------|------|--|
| LAND USE | EXISTING POTENTIAL GROSS FROSION (TONS/ACRE) | EXISTING POTENTIAL GROSS FROSION (TONS/ACRE) | SOIL SPRING LOSS TO FLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOUGH (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) | | |
| 1 CROPLAND 1 | 184434.7 | 102286.6 | 175931.4 | 195561.8 | 179055.2 | 26128.2 | 79921.6 | 22385.2 | 22385.2 | 0.2 | |
| 2 CROPLAND 2 | 247525.8 | 177914.3 | 236160.9 | 262996.2 | 240306.4 | 35066.2 | 107261.1 | 60269.6 | 63028.4 | 4.6 | |
| 3 CROPLAND 3 | 13647.0 | 12677.2 | 13021.5 | 14530.0 | 13249.0 | 13547.0 | 13647.2 | 7535.3 | 155.7 | 10.2 | |
| 4 CROPLAND 4 | 15169.4 | 15169.4 | 14474.2 | 16117.5 | 14727.0 | 6573.4 | 6573.4 | 13625.1 | 0.0 | 0.0 | |
| 5 CROPLAND 5 | 4181.3 | 4181.3 | 3949.7 | 4442.7 | 4039.4 | 4181.3 | 4181.3 | 3330.7 | 0.0 | 0.0 | |
| 6 CROPLAND 6 | 24235.1 | 1934.6 | 23124.3 | 25749.8 | 23528.3 | 3433.3 | 10501.3 | 422.5 | 422.5 | 57.4 | |
| 7 CROPLAND 7 | 489193.3 | 314163.6 | 466772.0 | 519768.0 | 474925.3 | 89029.4 | 222806.3 | 113128.5 | 113128.5 | 1.9 | |
| 8 VINEYARDS AND ORCH. | 25.9 | 25.9 | 25.9 | 2041.1 | 2041.1 | 2041.1 | 2041.1 | 2041.1 | 2041.1 | 1.9 | |
| 9 GRASSLAND AND PASTURE | 358.2 | 358.2 | 358.2 | 7571.3 | 7571.3 | 7571.3 | 7571.3 | 7571.3 | 7571.3 | 1.9 | |
| 10 WOODLAND | 1543.4 | 1543.4 | 1543.4 | 17976.5 | 17976.5 | 17976.5 | 17976.5 | 17976.5 | 17976.5 | 1.9 | |
| SUMMARY TOTAL POTENTIAL GROSS FROSION | | | | | | | | | | | |
| | | 519620.1 | 334433.6 | 495697.7 | 551969.0 | 504524.1 | 96235.0 | 237013.1 | 105433.5 | 1.9 | |
| | | 3.6 | 2.3 | 3.4 | 5.4 | 3.5 | .7 | 1.5 | 54.4 | 1.9 | |
| PERCENT REDUCTION: | | 0.0 | 35.6 | 4.5 | -6.2 | 2.9 | 41.5 | 54.4 | 54.4 | 1.9 | |

LAKE ERIE WASTE/WATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : WEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

SAVINSKY RIVER WETLAND COUNTY: 03 S.W.F.C. 3413

| LAND USE | EXISTING POTENTIAL GROSS FROSION (TONS) | LOSS TO F. PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL WENT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) |
|---------------------------------------|---|---|--------------------------|--------------------------|----------------------------------|--|------------------------------------|---|
| 230PLAND 546 1 | 10668.7 | 5292.6 | 10120.9 | 7.8 | 10460.7 | 4723.1 | 1478.3 | 591.9 |
| 230PLAND 546 2 | 8777.7 | 6503.3 | 8428.2 | 8.2 | 8777.7 | 3933.1 | 2001.5 | 1932.4 |
| 230PLAND 546 3 | 70.2 | 70.2 | 66.7 | 75.6 | 70.2 | 70.2 | 44.5 | 0.0 |
| 230PLAND 546 4 | 154.5 | 154.5 | 146.7 | 166.3 | 154.5 | 69.5 | 190.4 | 3.2 |
| 230PLAND 546 5 | 175.4 | 175.4 | 166.5 | 188.8 | 175.4 | 175.4 | 177.9 | 0.0 |
| 230PLAND 546 10 | 15801.1 | 410.2 | 15001.0 | 17001.2 | 15801.1 | 7000.5 | 133.4 | 133.4 |
| 230PLAND | 35739.6 | 12612.2 | 33930.0 | 38454.1 | 35739.6 | 15970.3 | 4308.1 | 110.4 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 158.1 | 0.0 | 0.0 | 0.0 |
| GRASSLAND AND PASTURE | 22.4 | 22.4 | 22.4 | 279.2 | 279.2 | 0.0 | 0.0 | 0.0 |
| WOODLAND | 588.1 | 588.1 | 588.1 | 10487.1 | 10487.1 | 0.0 | 0.0 | 0.0 |
| SUMMARY TOTAL POTENTIAL GROSS FROSION | 109118.0 | 39539.6 | 103473.9 | 117284.6 | 100118.0 | 49643.3 | 15708.5 | 15708.5 |
| PERCENT REDUCTION: | 0.0 | 3.8 | 5.0 | -7.3 | 0.0 | 43.3 | 94.3 | 94.3 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCHEMES

| BASIN: SANDUSKY RIVER | | COUNTY: 12 HARPING, ONT | | | | | | | | | |
|---------------------------------------|------------------------------------|---|----------------------------------|---------------------------|---------------------|----------------------------------|------------------------|------------------------------------|--------------------------------------|-----------|--|
| LAND USE | EXISTING POT. GROSS EROSION (TONS) | REDUCED LOSS TO T. AND EXISTING ONLY (TONS) | SOIL SPRING PLOTTING ONLY (TONS) | FALL PLOTTING ONLY (TONS) | WINTER COVER (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE (TONS) | SOIL WASH. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS TO FACTOR (ACRES) | TONS/ACRE | |
| CROPLAND 1 | 13718.9 | 3708.5 | 13176.6 | 14532.2 | 15230.4 | 1749.4 | 5802.0 | 1378.4 | 1225.2 | 11.0 | |
| SW | 9.9 | 2.7 | 9.6 | 10.2 | 9.6 | 1.1 | 6.2 | | | | |
| CROPLAND 2 | 26784.8 | 16312.4 | 25126.1 | 24372.6 | 25432.0 | 3493.7 | 11328.3 | 7161.1 | 2513.1 | 7.2 | |
| SW | 3.7 | 2.3 | 3.6 | 9.0 | 3.6 | .5 | 1.5 | | | | |
| CROPLAND 3 | 668.0 | 668.0 | 641.4 | 707.6 | 644.2 | 644.0 | 669.3 | 249.1 | 9.0 | 0.0 | |
| SW | 2.3 | 2.3 | 2.2 | 2.4 | 2.2 | 2.3 | 2.3 | | | | |
| CROPLAND 4 | 4084.3 | 4084.3 | 3922.9 | 4326.4 | 3939.0 | 1727.4 | 1727.4 | 5204.0 | 0.0 | 0.0 | |
| SW | .8 | .8 | .9 | .8 | .8 | .3 | .3 | | | | |
| CROPLAND 5 | 399.2 | 399.2 | 363.4 | 422.2 | 345.0 | 349.2 | 399.2 | 289.1 | 3.0 | 0.0 | |
| SW | 1.4 | 1.4 | 1.3 | 1.5 | 1.3 | 1.4 | 1.4 | | | | |
| CROPLAND 6 | 69.6 | 69.6 | 66.8 | 73.7 | 67.1 | 29.4 | 29.4 | 89.0 | 0.0 | 0.0 | |
| SW | .8 | .8 | .8 | .8 | .8 | .3 | .3 | | | | |
| CROPLAND 9 | 73.1 | 73.1 | 70.3 | 77.5 | 70.5 | 73.1 | 73.1 | 66.7 | 0.0 | 0.0 | |
| SW | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | 1.1 | 1.1 | | | | |
| CROPLAND | 45797.9 | 25315.2 | 43947.7 | 44513.0 | 44168.6 | 4140.2 | 20027.1 | 14477.3 | | | |
| SW | 5.2 | 1.7 | 3.3 | 3.4 | 3.1 | .6 | 1.4 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 355.8 (ACRES) | | | | | | |
| SW | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | | | |
| GRASSLAND AND PASTURE | 18.5 | 18.5 (TONS) | 177.9 (ACRES) | 177.9 (ACRES) | 945.1 (ACRES) | | | | | | |
| SW | .06 | .06 (TONS/ACRE) | .06 (TONS/ACRE) | .06 (TONS/ACRE) | | | | | | | |
| WOODLAND | 51.6 | 51.6 (TONS) | 11875.9 (ACRES) | 11875.9 (ACRES) | | | | | | | |
| SW | 1023.0 | 1923.0 (ACRES) | .25 (TONS/ACRE) | .25 (TONS/ACRE) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | |
| 80596.9 | 44509.3 | 77415.5 | 85368.5 | 77733.4 | 14485.5 | 35305.3 | 27554.6 | | | | |
| 2.9 | 1.6 | 2.8 | 3.1 | 2.8 | .5 | 1.3 | | | | | |
| PERCENT REDUCTION: | | | | | | | | | | | |
| 0.0 | 44.7 | 3.9 | -5.9 | 3.6 | 42.0 | 55.2 | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SANDUSKY RIVER | | | | MEXICOGON | | | | COUNTY: 13 MARION, OHIO | | | | | | | | | | | |
|---------------------------------------|---|---|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---|--|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | | | | | | | | | | |
| CROPLAND 1 | 9611.4 | 2735.5 | 9218.4 | 10218.8 | 9146.9 | 1179.1 | 3859.3 | 911.3 | 911.8 | | | | | | | | | | |
| 345 | 18.5 | 3.0 | 10.1 | 11.2 | 10.0 | 1.3 | 4.2 | | 10.5 | | | | | | | | | | |
| CROPLAND 2 | 4998.6 | 4998.6 | 4794.2 | 5314.5 | 4751.0 | 613.2 | 2006.3 | 2001.6 | 0.0 | | | | | | | | | | |
| 346 | 2.5 | 2.5 | 2.4 | 2.7 | 2.4 | .3 | 1.0 | | 0.0 | | | | | | | | | | |
| CROPLAND 3 | 17078.9 | 7005.4 | 16372.9 | 18149.8 | 16246.0 | 17070.9 | 17070.9 | 2335.1 | 2335.1 | | | | | | | | | | |
| 346 | 7.3 | 3.0 | 7.0 | 7.4 | 7.0 | 7.3 | 7.3 | | 7.3 | | | | | | | | | | |
| CROPLAND 4 | 3954.2 | 3954.2 | 3792.6 | 4204.1 | 3763.2 | 1587.6 | 1587.6 | 4314.5 | 2.0 | | | | | | | | | | |
| 346 | .9 | .9 | .9 | 1.0 | .9 | .4 | .4 | | 0.0 | | | | | | | | | | |
| CROPLAND 5 | 5631.9 | 2514.1 | 5401.6 | 5987.8 | 5559.7 | 5631.9 | 5631.9 | 978.5 | 711.7 | | | | | | | | | | |
| 346 | 5.8 | 2.6 | 5.5 | 6.1 | 5.5 | 5.8 | 5.8 | | 7.4 | | | | | | | | | | |
| CROPLAND 8 | 160.1 | 160.1 | 153.5 | 170.2 | 152.3 | 64.3 | 64.3 | 133.4 | 0.0 | | | | | | | | | | |
| 345 | 1.2 | 1.2 | 1.2 | 1.3 | 1.1 | .5 | .5 | | 0.0 | | | | | | | | | | |
| CROPLAND 9 | 211.9 | 211.9 | 203.3 | 225.3 | 201.7 | 211.9 | 211.9 | 177.9 | 0.0 | | | | | | | | | | |
| 346 | 1.2 | 1.2 | 1.1 | 1.3 | 1.1 | 1.2 | 1.2 | | 0.0 | | | | | | | | | | |
| CROPLAND 10 | 1693.8 | 66.7 | 1624.6 | 1800.9 | 1612.0 | 207.8 | 680.0 | 22.2 | 22.2 | | | | | | | | | | |
| 345 | 76.5 | 5.0 | 73.2 | 81.1 | 72.6 | 9.4 | 30.5 | | 76.5 | | | | | | | | | | |
| CROPLAND | 43332.8 | 21646.5 | 41561.1 | 46071.4 | 41238.8 | 26586.7 | 31112.4 | 10875.0 | | | | | | | | | | | |
| | 4.0 | 2.0 | 3.8 | 4.2 | 3.8 | 2.4 | 2.9 | | | | | | | | | | | | |
| WETLANDS AND ORCH. | 0.0 | 0.0 (TONS) | WATER AREA ONLY | 56.7 (ACRES) | | | | | | | | | | | | | | | |
| | 0.0 | 0.0 (ACRES) | 0.0 (TONS/ACRE) | | | | | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 9.4 | 9.4 (TONS) | OTHER LAND | 711.7 (ACRES) | | | | | | | | | | | | | | | |
| | 89.0 | 89.0 (ACRES) | JSE AREA | | | | | | | | | | | | | | | | |
| | .11 | .11 (TONS/ACRE) | | | | | | | | | | | | | | | | | |
| WOODLAND | 32.2 | 32.2 (TONS) | MISSING DATA | 27710.4 (ACRES) | | | | | | | | | | | | | | | |
| | 511.5 | 511.5 (ACRES) | | | | | | | | | | | | | | | | | |
| | .06 | .06 (TONS/ACRE) | | | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 148112.5 | 74058.9 | 142062.5 | 157464.1 | 140962.0 | 93860.5 | 106382.3 | 33185.9 | | | | | | | | | | | |
| | 3.8 | 1.9 | 3.6 | 4.0 | 3.6 | 2.3 | 2.7 | | | | | | | | | | | | |
| PERCENT REDUCTION: | 8.0 | 50.0 | 4.1 | -6.3 | 4.6 | 38.7 | 28.2 | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SANDUSKY RIVER | | MICHIGAN | | COUNTY: 10 RICHMOND, OHIO | | | |
|---------------------------------------|---|--------------------------------|-----------------------------|----------------------------------|--------------------------------|-------------------------------------|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | FALL PLOWING (TONS/ACRE) | WINTER COVER (TONS/ACRE) | MAXIMUM REDUCTION (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL MGMT. GRASS AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
| CROPLAND 1 | 10931.1 6.2 | 12797.0 6.1 | 12150.8 6.2 | 10931.1 6.2 | 2132.9 5.4 | 1756.9 | 1756.9 6.2 |
| CROPLAND 2 | 13455.1 5.7 | 13444.6 5.5 | 13513.8 6.1 | 13655.1 5.7 | 2664.4 5.7 | 3714.0 | 3534.1 5.8 |
| CROPLAND 3 | 1129.0 1.2 | 1115.2 1.2 | 1252.9 1.3 | 1129.0 1.2 | 1129.0 1.2 | 354.1 | 0.0 0.0 |
| CROPLAND 4 | 628.1 5.5 | 628.5 5.5 | 697.1 5.5 | 628.1 5.5 | 344.7 5.5 | 1200.9 | 0.0 0.0 |
| CROPLAND 5 | 112.2 5.7 | 110.8 5.7 | 124.5 5.4 | 112.2 5.7 | 112.2 5.7 | 155.7 | 0.0 0.0 |
| CROPLAND 10 | 10932.3 70.2 | 10799.0 59.4 | 12132.2 77.9 | 10932.3 70.2 | 2133.1 13.7 | 155.7 | 155.7 70.2 |
| CROPLAND | 37397.8 4.7 | 36931.9 4.7 | 41491.3 5.2 | 37397.8 4.7 | 9516.5 1.1 | 7917.3 | |
| VINEYARDS AND ORCH. | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS/ACRE) | 311.4 (ACRES) | | | |
| PASTURE | 35.5 444.8 9.8 | 35.5 (TONS) 444.8 (ACRES) | 778.4 (ACRES) | | | | |
| WOODLAND | 139.7 1112.0 13 | 139.7 (TONS) 1112.0 (ACRES) | 177.9 (ACRES) | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 38268.3 4.0 | 37803.9 3.9 | 42448.9 4.4 | 38268.3 4.4 | 8854.7 5.0 | 3652.3 | |
| PERCENT REDUCTION: | 0.0 | 41.3 | 1.2 | 0.0 | 76.9 | 43.4 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SANDUSKY RIVER | | MEXICAN | | COUNTY: 62 ALL IN BASIN | | U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT | |
|--|---|--|--|--|--|--|--|
| LAND USE | EXISTING POT-REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. 3133P LAVO (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) |
| 1--CROPLAND 346 | 509710.5 10.1 | 204833.8 4.0 | 491018.3 9.7 | 544671.5 10.7 | 496903.7 9.6 | 70549.8 1.4 | 99497.7 10.2 |
| 2--CROPLAND 346 | 470554.0 3.8 | 345550.2 2.8 | 452131.8 3.7 | 561772.1 4.1 | 458238.2 3.7 | 65861.4 .5 | 97872.9 4.4 |
| 3--CROPLAND 346 | 45246.0 3.0 | 33369.9 2.2 | 43489.2 2.9 | 44223.2 3.2 | 43707.1 2.9 | 45246.0 3.0 | 6482.5 4.9 |
| 4--CROPLAND 346 | 47933.5 .8 | 47933.5 .8 | 46163.0 .8 | 51111.9 .9 | 46602.2 .4 | 27247.0 .4 | 55517.9 0.0 |
| 5--CROPLAND 346 | 22892.8 1.7 | 18382.1 1.3 | 22063.5 1.6 | 24417.4 1.8 | 22198.5 1.6 | 22892.8 1.7 | 1023.0 7.4 |
| 8--CROPLAND 346 | 1026.0 1.2 | 1026.0 1.2 | 992.2 1.1 | 1095.4 1.2 | 997.5 1.1 | 424.5 .5 | 877.2 0.0 |
| 9--CROPLAND 346 | 6098.7 1.2 | 6098.7 1.2 | 5908.2 1.1 | 6518.9 1.2 | 5951.7 1.1 | 6098.7 1.2 | 5300.4 0.0 |
| 10--CROPLAND 346 | 171954.1 92.9 | 6652.1 3.6 | 166170.2 89.8 | 14234.4 99.5 | 164412.4 91.0 | 24166.2 13.1 | 1850.8 92.9 |
| 1--VINEYARDS AND ORCH. | 1275415.6 4.8 | 663846.3 2.5 | 1227936.4 4.6 | 1361444.4 5.1 | 1243011.3 4.6 | 587507.0 2.2 | 267866.5 |
| 2--GRASSLAND AND PASTURE | 187.0 1.08 | 176.9 (TONS) 111.2 (ACRES) 1.59 (TONS/ACRE) | 176.9 (TONS) 111.2 (ACRES) 1.59 (TONS/ACRE) | 176.9 (TONS) 111.2 (ACRES) 1.59 (TONS/ACRE) | 176.9 (TONS) 111.2 (ACRES) 1.59 (TONS/ACRE) | 176.9 (TONS) 111.2 (ACRES) 1.59 (TONS/ACRE) | 176.9 (TONS) 111.2 (ACRES) 1.59 (TONS/ACRE) |
| 3--WOODLAND | 453.6 29966.4 .15 | 453.6 (TONS) 29966.4 (ACRES) .15 (TONS/ACRE) | 453.6 (TONS) 29966.4 (ACRES) .15 (TONS/ACRE) | 453.6 (TONS) 29966.4 (ACRES) .15 (TONS/ACRE) | 453.6 (TONS) 29966.4 (ACRES) .15 (TONS/ACRE) | 453.6 (TONS) 29966.4 (ACRES) .15 (TONS/ACRE) | 453.6 (TONS) 29966.4 (ACRES) .15 (TONS/ACRE) |
| 3--WATER TOTAL POTENTIAL GROSS EROSION | 194958.6 4.2 | 1018026.6 2.2 | 1477577.3 4.3 | 216426.4 4.5 | 1950527.4 4.1 | 502510.3 1.3 | 465494.1 |
| PERCENT REDUCTION: | 0.0 | 47.7 | 3.7 | -6.7 | 2.5 | 79.6 | 53.7 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SANDUSKY RIVER UPPER SANDUSKY RIVER COUNTY: W2 CRAWFORD, OHIO

| LAND USE | EXISTING GROSS EROSION (TONS) | POT. LOSS TO T. PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM TILLAGE (TONS) | REDUCED TILLAGE (TONS) | SOIL WASH GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS S T FACTOR (ACRES) |
|---------------------------------------|-------------------------------|-------------------------------------|--------------------------|--------------------------|------------------------|------------------------|-----------------------------------|---------------------------------------|
| CROPLAND 1 | 146276.5 | 80289.2 | 139572.2 | 195418.8 | 142010.1 | 23722.5 | 17927.5 | 17927.5 |
| S46 | 8.2 | 4.5 | 7.8 | 8.7 | 7.9 | 5.3 | 1.2 | 1.2 |
| CROPLAND 2 | 177900.7 | 127706.6 | 169746.9 | 189019.6 | 172712.6 | 25202.6 | 45528.7 | 29993.6 |
| S46 | 3.8 | 2.7 | 3.6 | 4.1 | 3.7 | 1.7 | 1.7 | 1.7 |
| CROPLAND 3 | 7437.2 | 6467.3 | 7996.3 | 7902.0 | 7220.2 | 7437.2 | 3790.6 | 155.7 |
| S46 | 2.0 | 1.7 | 1.9 | 2.1 | 1.9 | 2.0 | 2.3 | 10.2 |
| CROPLAND 4 | 14280.4 | 14280.4 | 13525.3 | 15173.0 | 13853.9 | 5188.2 | 19446.4 | 0.0 |
| S46 | .8 | .8 | .7 | .8 | .8 | .3 | .3 | 0.0 |
| CROPLAND 5 | 3251.5 | 3251.5 | 3102.3 | 3459.7 | 3156.6 | 3251.5 | 3128.4 | 0.0 |
| S46 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 0.0 |
| CROPLAND 10 | 21614.7 | 1712.4 | 24624.3 | 22965.6 | 20954.3 | 3062.1 | 370.1 | 374.1 |
| S46 | 57.2 | 4.5 | 54.5 | 60.7 | 55.5 | 8.1 | 24.5 | 57.2 |
| CROPLAND | 370761.0 | 233707.4 | 353767.8 | 393933.7 | 359947.1 | 65868.1 | 166720.1 | 98299.7 |
| VINEYARDS AND ORCH. | 25.9 | 25.9 (TONS) | 44.5 (ACRES) | 44.5 (ACRES) | 1742.1 (ACRES) | | | |
| GRASSLAND AND PASTURE | 327.2 | 327.2 (TONS) | 3444.6 (ACRES) | 3444.6 (ACRES) | 6212.2 (ACRES) | | | |
| WOODLAND | 1213.1 | 1213.1 (TONS) | 10744.1 (ACRES) | 10744.1 (ACRES) | 7521.9 (ACRES) | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 399118.8 | 252203.2 | 340982.9 | 423959.0 | 387526.8 | 72282.4 | 180395.7 | 112054.8 |
| PERCENT REDUCTION: | 0.0 | 36.8 | 4.6 | -6.2 | 2.9 | 81.9 | 50.8 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: SANDUSKY RIVER | | | UPPER SANDUSKY, OH | | | COUNTY: 11 WYANDOT, OHIO | | | | | | | | | |
|--|---|--|---------------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------------------|---|--|--|--|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS) | LOSS TO TILLAGE AND EXISTING ONLY (TONS) | SOIL SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM TILLAGE (TONS) | REDUCED TILLAGE (TONS) | SOIL MGMT. 352UP LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | | | | | | |
| CROPLAND 1 | 71455.2 | 19993.3 | 69256.6 | 76462.1 | 69806.2 | 9619.0 | 29681.4 | 5504.3 | 5604.3 | | | | | | |
| SWG | 12.8 | 3.6 | 12.4 | 13.6 | 12.5 | 1.7 | 5.3 | 12.8 | 12.8 | | | | | | |
| CROPLAND 2 | 28217.5 | 18404.4 | 27349.3 | 30171.0 | 27566.3 | 3798.5 | 11721.1 | 5026.3 | 4470.1 | | | | | | |
| SWG | 9.7 | 3.1 | 4.5 | 5.0 | 4.6 | .6 | 1.9 | 5.2 | 5.2 | | | | | | |
| CROPLAND 3 | 1474.6 | 1134.2 | 1429.2 | 1576.7 | 1440.6 | 1474.6 | 1474.6 | 378.1 | 378.1 | | | | | | |
| SWG | 3.9 | 3.0 | 3.8 | 4.2 | 3.8 | 3.9 | 3.9 | 3.9 | 3.9 | | | | | | |
| CROPLAND 4 | 2954.1 | 2954.1 | 2863.2 | 3158.6 | 2895.9 | 1227.1 | 1227.1 | 3091.3 | 0.0 | | | | | | |
| SWG | 1.0 | 1.0 | .9 | 1.0 | .9 | .4 | .4 | .4 | 0.0 | | | | | | |
| CROPLAND 5 | 4991.5 | 3906.4 | 4837.9 | 5337.1 | 4476.3 | 4991.5 | 4991.5 | 2735.5 | 133.4 | | | | | | |
| SWG | 1.8 | 1.4 | 1.8 | 2.0 | 1.8 | 1.8 | 1.8 | 1.9 | 11.1 | | | | | | |
| CROPLAND 8 | 27.4 | 27.4 | 26.5 | 29.3 | 26.7 | 11.4 | 11.4 | 22.2 | 0.0 | | | | | | |
| SWG | 1.2 | 1.2 | 1.2 | 1.3 | 1.2 | .5 | .5 | .5 | 0.0 | | | | | | |
| CROPLAND 9 | 1021.5 | 1021.5 | 990.1 | 1092.3 | 998.0 | 1021.5 | 1021.5 | 989.6 | 9.0 | | | | | | |
| SWG | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | | | | | | |
| CROPLAND 10 | 50905.8 | 1245.4 | 49339.4 | 54430.3 | 49731.0 | 6852.7 | 21145.3 | 400.3 | 400.3 | | | | | | |
| SWG | 127.2 | 3.1 | 123.3 | 136.0 | 124.2 | 17.1 | 52.8 | 127.2 | 127.2 | | | | | | |
| CROPLAND 11 | 161047.6 | 48606.7 | 156092.2 | 172197.1 | 157331.0 | 24996.3 | 71274.1 | 19148.2 | 127.2 | | | | | | |
| SWG | 8.4 | 2.5 | 8.2 | 9.0 | 8.2 | 1.5 | 3.7 | 127.2 | 127.2 | | | | | | |
| VINEYARDS AND ORCH. | 161.2 | 151.0 (TONS) | 151.0 (TONS) | 151.0 (TONS) | 151.0 (TONS) | 151.0 (TONS) | 151.0 (TONS) | 151.0 (TONS) | 151.0 (TONS) | | | | | | |
| SWG | 66.7 | 66.7 (ACRES) | 66.7 (ACRES) | 66.7 (ACRES) | 66.7 (ACRES) | 66.7 (ACRES) | 66.7 (ACRES) | 66.7 (ACRES) | 66.7 (ACRES) | | | | | | |
| GRASSLAND AND PASTURE | 183.5 | 183.5 (TONS) | 183.5 (TONS) | 183.5 (TONS) | 183.5 (TONS) | 183.5 (TONS) | 183.5 (TONS) | 183.5 (TONS) | 183.5 (TONS) | | | | | | |
| SWG | 1378.8 | 1378.8 (ACRES) | 1378.8 (ACRES) | 1378.8 (ACRES) | 1378.8 (ACRES) | 1378.8 (ACRES) | 1378.8 (ACRES) | 1378.8 (ACRES) | 1378.8 (ACRES) | | | | | | |
| WOODLAND | 496.3 | 496.3 (TONS) | 496.3 (TONS) | 496.3 (TONS) | 496.3 (TONS) | 496.3 (TONS) | 496.3 (TONS) | 496.3 (TONS) | 496.3 (TONS) | | | | | | |
| SWG | 2357.4 | 2357.4 (ACRES) | 2357.4 (ACRES) | 2357.4 (ACRES) | 2357.4 (ACRES) | 2357.4 (ACRES) | 2357.4 (ACRES) | 2357.4 (ACRES) | 2357.4 (ACRES) | | | | | | |
| 3 YEARLY TOTAL POTENTIAL GROSS EROSION | 318608.5 | 97471.9 | 308844.2 | 340543.0 | 311286.2 | 58120.5 | 141924.2 | 43168.3 | 43168.3 | | | | | | |
| PERCENT REDUCTION: | 7.1 | 2.2 | 6.8 | 7.5 | 6.9 | 1.3 | 3.1 | 3.1 | 3.1 | | | | | | |
| PERCENT REDUCTION: | 0.0 | 69.4 | 3.1 | -6.9 | 2.3 | 41.6 | 53.3 | 53.3 | 53.3 | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: SANDUSKY RIVER | | UPPER SANDUSKY | | COUNTY: 13 | | MAY 1970, 1971 | | | |
|--|--|----------------------------------|-------------------------------|--------------------------|-------------------------------------|---|--|---|------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION AND EXISTING ONLY (TONS/ACRE) | LOSS TO FLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER (TONS/ACRE) | MAXIMUM REDUCTION YIELD (TONS/ACRE) | REDUCED FILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WGT. LOSS: 200% LAND AREA (ACRES) | EXISTING SOIL LOSS: 1% FACTOR (TONS/ACRE) | |
| CROPLAND 1 | 4804.7 | 1067.5 | 4604.1 | 5108.4 | 4572.6 | 549.4 | 129.0 | 355.4 | 13.5 |
| CROPLAND 2 | 2056.0 | 2056.0 | 1971.9 | 2185.9 | 1956.6 | 252.2 | 925.3 | 922.3 | 0.0 |
| CROPLAND 3 | 6101.3 | 2935.6 | 5851.8 | 6486.9 | 5804.5 | 6101.3 | 6101.3 | 978.5 | 6.2 |
| CROPLAND 4 | 1530.2 | 1530.2 | 1467.6 | 1626.9 | 1456.2 | 614.4 | 614.4 | 1568.0 | 0.0 |
| CROPLAND 5 | 1901.8 | 765.6 | 1824.0 | 2022.0 | 1809.9 | 1901.8 | 1901.8 | 266.7 | 7.6 |
| CROPLAND 9 | 53.7 | 53.7 | 51.5 | 57.1 | 51.1 | 53.7 | 53.7 | 44.5 | 0.0 |
| CROPLAND 10 | 1693.8 | 66.7 | 1624.5 | 1800.9 | 1612.0 | 207.8 | 680.3 | 22.2 | 76.3 |
| VINEYARDS AND ORCH. | 18141.5 | 8475.3 | 17399.7 | 19288.1 | 17284.9 | 9720.6 | 12105.7 | 4158.8 | |
| PASTURE AND PASTURE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| WOODLAND | 22.7 | 22.7 | 22.7 | 4155.9 | 6115.9 | 6115.9 | 6115.9 | 10541.5 | |
| SUMMARY TOTAL POTENTIAL GROSS FROSTION | | | | | | | | | |
| PERCENT REDUCTION: 0.0 | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SAMOUSKY RIVER | | | | UPPER SAMOUSKY RIVER | | | | COUNTY: 14 RICHMOND, OHIO | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|--------------------------|--------------------------|----------------------------------|---|---------------------------------|---------------------------------------|--------|-----|---------|--------|--------|--------|--------|------|------|------|--|--|--|--|--|
| LAND USE | EXISTING POT. REDUCED GROSS EROSION (TONS/ACRE) | SOIL SPRING LOSS TO T. AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. 50% PLD AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) | 1756.3 | 6.2 | 10931.1 | 2132.9 | 5993.3 | 1756.3 | 3536.1 | 3.6 | 0.0 | 0.0 | | | | | |
| CROPLAND 1 | 10931.1 | 8517.7 | 10797.8 | 12130.8 | 10931.1 | 2132.9 | 5993.3 | 1756.3 | 1756.3 | 6.2 | 6.2 | 1.2 | 3.4 | 1756.3 | 3536.1 | 3.6 | 0.0 | 0.0 | | | | | |
| 546 | 6.2 | 4.8 | 6.2 | 6.9 | 6.2 | 1.2 | 3.4 | 6.2 | 6.2 | | | | | 6.2 | 3.6 | | | | | | | | |
| CROPLAND 2 | 13655.1 | 10855.9 | 13488.0 | 15153.0 | 13655.1 | 2666.4 | 7493.7 | 5716.0 | 3536.1 | 3.7 | 3.7 | .7 | 2.0 | 5716.0 | 3536.1 | 2.0 | 0.0 | 0.0 | | | | | |
| 546 | 3.7 | 2.9 | 3.6 | 4.1 | 3.7 | .7 | 2.0 | 3.7 | 3.7 | | | | | 3.7 | 2.0 | | | | | | | | |
| CROPLAND 3 | 1129.0 | 1129.0 | 1135.2 | 1252.9 | 1129.0 | 1129.0 | 1129.0 | 350.1 | 350.1 | 1.2 | 1.2 | 1.2 | 1.2 | 350.1 | 350.1 | 1.2 | 0.0 | 0.0 | | | | | |
| 546 | 1.2 | 1.2 | 1.2 | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | | | | | 1.2 | 1.2 | | | | | | | | |
| CROPLAND 4 | 628.1 | 628.1 | 620.5 | 697.1 | 628.1 | 346.7 | 346.7 | 1200.9 | 1200.9 | .5 | .5 | .3 | .3 | 1200.9 | 1200.9 | .3 | 0.0 | 0.0 | | | | | |
| 546 | .5 | .5 | .5 | .6 | .5 | .3 | .3 | .5 | .5 | | | | | .5 | .3 | | | | | | | | |
| CROPLAND 5 | 112.2 | 112.2 | 110.8 | 124.5 | 112.2 | 112.2 | 112.2 | 155.7 | 155.7 | .7 | .7 | .7 | .7 | 155.7 | 155.7 | .7 | 0.0 | 0.0 | | | | | |
| 546 | .7 | .7 | .7 | .8 | .7 | .7 | .7 | .7 | .7 | | | | | .7 | .7 | | | | | | | | |
| CROPLAND 10 | 20932.3 | 622.7 | 10799.0 | 12132.2 | 10932.3 | 2133.1 | 5993.4 | 155.7 | 155.7 | 4.0 | 69.4 | 77.5 | 39.5 | 155.7 | 155.7 | 39.5 | 70.2 | 70.2 | | | | | |
| 546 | 70.2 | 4.0 | 69.4 | 77.5 | 70.2 | 13.7 | 39.5 | 70.2 | 70.2 | | | | | 70.2 | 13.7 | | | | | | | | |
| CROPLAND | 37387.0 | 2185.0 | 36931.9 | 41491.3 | 37387.0 | 4516.3 | 21077.4 | 7317.3 | | 4.7 | 5.2 | 4.7 | 2.7 | | | | | | | | | | |
| | 4.7 | 2.8 | 4.7 | 5.2 | 4.7 | 1.1 | 2.7 | | | | | | | | | | | | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS/ACRE) | 311.4 (ACRES) | | | | | | | | | | | | | | | | | | |
| | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 35.5 | 35.5 (TONS) | OTHER LAND 444.8 (ACRES) | 778.4 (ACRES) | | | | | | | | | | | | | | | | | | | |
| | .08 | .08 (TONS/ACRE) | USE AREA | | | | | | | | | | | | | | | | | | | | |
| WOODLAND | 139.7 | 139.7 (TONS) | MISSING DATA | 177.9 (ACRES) | | | | | | | | | | | | | | | | | | | |
| | 1112.0 | 1112.0 (ACRES) | | | | | | | | | | | | | | | | | | | | | |
| | .13 | .13 (TONS/ACRE) | | | | | | | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 38260.3 | 22450.7 | 37803.7 | 42444.2 | 34260.3 | 4454.7 | 21652.1 | 9652.0 | | 4.6 | 2.3 | 3.9 | 2.2 | | | | | | | | | | |
| | 4.6 | 2.3 | 3.9 | 4.4 | 4.0 | .9 | 2.2 | | | | | | | | | | | | | | | | |
| PERCENT REDUCTIONS: | 8.0 | 41.3 | 1.2 | -10.9 | 0.0 | 76.9 | 43.4 | | | | | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SAUNDUSKY RIVER | | | | UPPER SAUNDUSKY | | | | COUNTY: 62 ALL IN BASIN | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------------------------------|--|-------------------------------|--------------------------|--------------------|--------------------------|-----------------------------|---|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|-------|--|
| LAND USE | EXISTING GROSS EROSION (TONS) | POT. REDUCE LOSS TO T. AND EXISTING ONLY (TONS/ACRE) | SOIL PLACING ONLY (TONS/ACRE) | FALL PLACING ONLY (TONS) | WINTER CROP (TONS) | REDUCTION TILLAGE (TONS) | MAXIMUM TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL P.D. AREA (ACRES) | SOIL MGMT. GROUP LAND (ACRES) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE) | | | |
| CROPLAND 1 | 23319.1 | 11000.3 | 224474.4 | 249323.4 | 227560.5 | 33098.6 | 101101.3 | 25689.0 | 9.1 | 25689.0 | 9.1 | 25689.0 | 9.1 | 25689.0 | 9.1 | 25689.0 | 9.1 | 25689.0 | 9.1 | 25689.0 | 9.1 | 25689.0 | 9.1 | 25689.0 | 9.1 | 25689.0 | 9.1 | 25689.0 | 9.1 | |
| CROPLAND 2 | 222158.3 | 159156.2 | 212870.0 | 236874.0 | 216204.7 | 31963.3 | 97268.2 | 57236.3 | 6.7 | 39044.3 | 6.7 | 39044.3 | 6.7 | 39044.3 | 6.7 | 39044.3 | 6.7 | 39044.3 | 6.7 | 39044.3 | 6.7 | 39044.3 | 6.7 | 39044.3 | 6.7 | 39044.3 | 6.7 | 39044.3 | 6.7 | |
| CROPLAND 3 | 16142.1 | 11666.1 | 15492.6 | 17218.5 | 15496.3 | 16142.1 | 16142.1 | 4041.3 | 5.1 | 1512.3 | 5.1 | 1512.3 | 5.1 | 1512.3 | 5.1 | 1512.3 | 5.1 | 1512.3 | 5.1 | 1512.3 | 5.1 | 1512.3 | 5.1 | 1512.3 | 5.1 | 1512.3 | 5.1 | 1512.3 | 5.1 | |
| CROPLAND 4 | 19392.9 | 19392.9 | 19577.2 | 26655.6 | 18834.2 | 8374.3 | 8374.3 | 24406.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| CROPLAND 5 | 10256.9 | 8035.7 | 9875.2 | 10938.2 | 9955.0 | 10256.9 | 10256.9 | 6286.3 | 4.9 | 374.1 | 4.9 | 374.1 | 4.9 | 374.1 | 4.9 | 374.1 | 4.9 | 374.1 | 4.9 | 374.1 | 4.9 | 374.1 | 4.9 | 374.1 | 4.9 | 374.1 | 4.9 | 374.1 | 4.9 | |
| CROPLAND 6 | 27.4 | 27.4 | 26.5 | 29.3 | 26.7 | 11.4 | 11.4 | 22.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| CROPLAND 7 | 1075.2 | 1075.2 | 1041.6 | 1149.3 | 1049.0 | 1075.2 | 1075.2 | 934.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| CROPLAND 8 | 85146.6 | 3547.3 | 42387.0 | 91328.5 | 43259.5 | 12255.7 | 37191.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | 956.3 | |
| VINEYARDS AND ORCH. | 187.0 | 176.9 (TONS) | 111.2 (ACRES) | 1.59 (TONS/ACRE) | 2943.0 (ACRES) | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 546.2 | 546.2 (TONS) | 5248.34 (ACRES) | 9659.3 (ACRES) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WOODLAND | 1871.8 | 1871.8 (TONS) | 14480.3 (ACRES) | 36032.9 (ACRES) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 740929.2 | 396103.1 | 711852.8 | 796614.4 | 721566.0 | 145272.2 | 343219.4 | 177505.4 | | | | | | | | | | | | | | | | | | | | | | | |
| 4.2 | 2.2 | 4.0 | 4.5 | 4.1 | .8 | 1.3 | | | | | | | | | | | | | | | | | | | | | | | | |
| PERCENT REDUCTION: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 46.5 | 3.9 | -6.7 | 2.6 | 80.4 | 53.5 | | | | | | | | | | | | | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: SANDUSKY RIVER | | SUCURYUSUM | | COUNTY: 02 CRAWFORD, OHIO | | | | | | | | | | | | | | | |
|---------------------------------------|--|---|-------------------------------|-------------------------------|-------------------------------------|---------------------------|------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION YIELD (TONS/ACRE) | REDUCED YIELD (TONS/ACRE) | SOIL LOSS > T FACTOR (ACRES) | SOIL LOSS (TONS/ACRE) | SOIL LOSS (TONS/ACRE) | SOIL LOSS (TONS/ACRE) | SOIL LOSS (TONS/ACRE) | SOIL LOSS (TONS/ACRE) | SOIL LOSS (TONS/ACRE) | SOIL LOSS (TONS/ACRE) | SOIL LOSS (TONS/ACRE) | SOIL LOSS (TONS/ACRE) | SOIL LOSS (TONS/ACRE) | SOIL LOSS (TONS/ACRE) | SOIL LOSS (TONS/ACRE) |
| CROPLAND 1 | 51193.0 | 28622.1 | 48846.7 | 54392.6 | 49649.5 | 7252.3 | 5471.2 | 5871.2 | 5871.2 | 5871.2 | 5871.2 | 5871.2 | 5871.2 | 5871.2 | 5871.2 | 5871.2 | 5871.2 | 5871.2 | 5871.2 |
| S45 | 8.7 | 4.9 | 8.3 | 9.3 | 8.5 | 1.2 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| CROPLAND 2 | 60711.5 | 45842.4 | 57928.9 | 64506.0 | 58940.7 | 8600.8 | 17435.7 | 18270.6 | 18270.6 | 18270.6 | 18270.6 | 18270.6 | 18270.6 | 18270.6 | 18270.6 | 18270.6 | 18270.6 | 18270.6 | 18270.6 |
| S46 | 3.5 | 2.6 | 3.3 | 3.7 | 3.4 | .5 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| CROPLAND 3 | 1456.9 | 1456.9 | 1390.2 | 1544.0 | 1414.4 | 1456.9 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 | 911.0 |
| S46 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| CROPLAND 4 | 4751.7 | 4751.7 | 4534.0 | 5048.7 | 4613.2 | 2059.1 | 6227.0 | 6227.0 | 6227.0 | 6227.0 | 6227.0 | 6227.0 | 6227.0 | 6227.0 | 6227.0 | 6227.0 | 6227.0 | 6227.0 | 6227.0 |
| S46 | .8 | .8 | .7 | .8 | .7 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 |
| CROPLAND 5 | 1389.9 | 1389.9 | 1326.2 | 1476.8 | 1349.4 | 1389.9 | 1356.6 | 1356.6 | 1356.6 | 1356.6 | 1356.6 | 1356.6 | 1356.6 | 1356.6 | 1356.6 | 1356.6 | 1356.6 | 1356.6 | 1356.6 |
| S45 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| CROPLAND 10 | 8587.5 | 733.9 | 8193.9 | 9124.2 | 8337.0 | 1216.6 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 | 195.7 |
| S46 | 55.2 | 4.7 | 52.6 | 56.6 | 53.5 | 7.4 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 |
| CROPLAND 12 | 128090.5 | 82796.9 | 122219.9 | 136376.3 | 124354.6 | 21375.6 | 31958.0 | 31958.0 | 31958.0 | 31958.0 | 31958.0 | 31958.0 | 31958.0 | 31958.0 | 31958.0 | 31958.0 | 31958.0 | 31958.0 | 31958.0 |
| S46 | 4.0 | 2.6 | 3.8 | 4.3 | 3.9 | .7 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| VINEYARDS AND ORCH. | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 |
| S45 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 |
| GRASSLAND AND PASTURE | 213.7 | 213.7 | 213.7 | 213.7 | 213.7 | 213.7 | 213.7 | 213.7 | 213.7 | 213.7 | 213.7 | 213.7 | 213.7 | 213.7 | 213.7 | 213.7 | 213.7 | 213.7 | 213.7 |
| S46 | 2046.0 | 2046.0 | 2046.0 | 2046.0 | 2046.0 | 2046.0 | 2046.0 | 2046.0 | 2046.0 | 2046.0 | 2046.0 | 2046.0 | 2046.0 | 2046.0 | 2046.0 | 2046.0 | 2046.0 | 2046.0 | 2046.0 |
| FOODLAND | 514.9 | 514.9 | 514.9 | 514.9 | 514.9 | 514.9 | 514.9 | 514.9 | 514.9 | 514.9 | 514.9 | 514.9 | 514.9 | 514.9 | 514.9 | 514.9 | 514.9 | 514.9 | 514.9 |
| S45 | .12 | .12 | .12 | .12 | .12 | .12 | .12 | .12 | .12 | .12 | .12 | .12 | .12 | .12 | .12 | .12 | .12 | .12 | .12 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 143694.4 | 93180.7 | 137147.2 | 152622.9 | 139526.6 | 25349.7 | 42610.7 | 42610.7 | 42610.7 | 42610.7 | 42610.7 | 42610.7 | 42610.7 | 42610.7 | 42610.7 | 42610.7 | 42610.7 | 42610.7 | 42610.7 |
| PERCENT REDUCTION: | 0.0 | 35.2 | 4.6 | -6.2 | 2.9 | 42.4 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| COUNTY: 14 RICHLAND, OHIO | | | | | | | | | |
|---------------------------------------|--|---|---------------------------------|--------------------------|--------------------------|----------------------------------|--|------------------------------------|---------------------------------------|
| BASIN: SANDUSKY RIVER | | | | | | | | | |
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING AND EXISTING ONLY (TONS) | SOIL SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL WASH- GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
| CROPLAND 1 | 10931.1 | 8517.7 | 10797.8 | 12110.8 | 10931.1 | 2132.9 | 5999.4 | 1756.9 | 1756.9 |
| 346 | 6.2 | 4.4 | 6.1 | 6.9 | 6.2 | 1.2 | 3.4 | 3.4 | 4.2 |
| CROPLAND 2 | 13655.1 | 10855.9 | 13088.6 | 15153.8 | 13655.1 | 2664.4 | 7493.7 | 1714.0 | 3536.1 |
| 345 | 3.7 | 2.9 | 3.6 | 4.1 | 3.7 | .7 | 2.0 | 2.0 | 3.4 |
| CROPLAND 3 | 1129.0 | 1129.0 | 1115.2 | 1252.9 | 1129.0 | 1129.0 | 1129.0 | 934.1 | 0.0 |
| 346 | 1.2 | 1.2 | 1.2 | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 0.0 |
| CROPLAND 4 | 628.1 | 628.1 | 620.5 | 697.1 | 628.1 | 344.7 | 344.7 | 1200.9 | 0.0 |
| 345 | .5 | .5 | .5 | .6 | .5 | .3 | .3 | .3 | 0.0 |
| CROPLAND 5 | 112.2 | 112.2 | 110.8 | 124.5 | 112.2 | 112.2 | 112.2 | 155.7 | 0.0 |
| 346 | .7 | .7 | .7 | .8 | .7 | .7 | .7 | .7 | 0.0 |
| CROPLAND 10 | 10932.3 | 622.7 | 11799.0 | 12132.2 | 10932.3 | 2133.1 | 5999.4 | 155.7 | 155.7 |
| 345 | 70.2 | 4.0 | 69.4 | 77.9 | 70.2 | 13.7 | 39.3 | 70.2 | 70.2 |
| CROPLAND | 37387.8 | 21865.6 | 36931.9 | 41491.3 | 37387.8 | 8516.3 | 21077.5 | 7317.3 | |
| | 4.7 | 2.8 | 4.7 | 5.2 | 4.7 | 1.1 | 2.7 | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 311.4 (ACRES) | | | | |
| | 0.0 | 0.0 (TONS/ACRE) | AREA ONLY | | | | | | |
| GRASSLAND AND PASTURE | 35.5 | 35.5 (TONS) | OTHER LAND | 778.4 (ACRES) | | | | | |
| | 444.8 | 444.8 (ACRES) | USE AREA | | | | | | |
| | .08 | .08 (TONS/ACRE) | | | | | | | |
| WOODLAND | 139.7 | 139.7 (TONS) | MISSING DATA | 177.9 (ACRES) | | | | | |
| | 1112.0 | 1112.0 (ACRES) | | | | | | | |
| | .13 | .13 (TONS/ACRE) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | |
| | 38268.3 | 22446.7 | 37803.9 | 42448.9 | 38268.3 | 8894.7 | 21652.1 | 9652.0 | |
| | 4.0 | 2.3 | 3.9 | 4.4 | 4.0 | .9 | 2.2 | | |
| PERCENT REDUCTIONS: | | | | | | | | | |
| | 0.0 | 41.3 | 1.2 | -10.9 | 0.0 | 76.9 | 43.4 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
 LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SANDUSKY RIVER | | BUCYRUS CO. | | COUNTY: 62 ALL IN BASIN | | | | | | | | | | | | | | | |
|---------------------------------------|--|---|-------------------------------|-------------------------------|---------------------------------------|---|-------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WASH: GROUP LAND (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| CROPLAND 1 | 62375.6 | 37362.2 | 59884.0 | 66786.8 | 60871.5 | 3420.0 | 7672.5 | 7672.6 | | | | | | | | | | | |
| 543 | 8.1 | 4.9 | 7.2 | 8.7 | 7.9 | 1.2 | 3.7 | 8.1 | | | | | | | | | | | |
| CROPLAND 2 | 74695.6 | 56831.7 | 71750.9 | 80004.4 | 72910.5 | 11310.7 | 21194.2 | 13955.2 | | | | | | | | | | | |
| 546 | 3.5 | 2.7 | 3.4 | 3.8 | 3.4 | .5 | 1.6 | 4.3 | | | | | | | | | | | |
| CROPLAND 3 | 2585.9 | 2585.9 | 2505.4 | 2800.9 | 2543.4 | 2585.9 | 1945.3 | 0.0 | | | | | | | | | | | |
| 546 | 1.4 | 1.4 | 1.4 | 1.5 | 1.4 | 1.4 | 1.4 | 0.0 | | | | | | | | | | | |
| CROPLAND 4 | 5379.9 | 5379.9 | 5154.4 | 5745.4 | 5241.3 | 2403.8 | 7428.0 | 0.0 | | | | | | | | | | | |
| 546 | .7 | .7 | .7 | .8 | .7 | .3 | .3 | 0.0 | | | | | | | | | | | |
| CROPLAND 5 | 1502.1 | 1502.1 | 1437.1 | 1631.3 | 1461.6 | 1502.1 | 1512.3 | 0.0 | | | | | | | | | | | |
| 546 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.3 | 0.0 | | | | | | | | | | | |
| CROPLAND 10 | 19519.8 | 1356.6 | 18922.9 | 21256.4 | 19269.3 | 3349.7 | 311.4 | 311.4 | | | | | | | | | | | |
| 546 | 62.7 | 4.4 | 61.0 | 68.3 | 61.9 | 10.8 | 31.2 | 62.7 | | | | | | | | | | | |
| CROPLAND | 166058.9 | 105018.4 | 155704.6 | 178195.6 | 162297.6 | 30572.2 | 33964.4 | | | | | | | | | | | | |
| | 4.2 | 2.6 | 4.0 | 4.5 | 4.1 | .8 | 2.3 | | | | | | | | | | | | |
| VINEYARDS AND ORCH. | 25.9 | 25.9 | 25.9 | 25.9 | 1089.7 | (ACRES) | | | | | | | | | | | | | |
| | 44.5 | 44.5 | 44.5 | 44.5 | | | | | | | | | | | | | | | |
| | .58 | .58 | .58 | .58 | | | | | | | | | | | | | | | |
| PASTURE AND PASTURE | 249.2 | 249.2 | 249.2 | 249.2 | 3689.5 | (ACRES) | | | | | | | | | | | | | |
| | 2490.8 | 2490.8 | 2490.8 | 2490.8 | | | | | | | | | | | | | | | |
| | .10 | .10 | .10 | .10 | | | | | | | | | | | | | | | |
| WOODLAND | 654.6 | 654.6 | 654.6 | 654.6 | 4581.3 | (ACRES) | | | | | | | | | | | | | |
| | 5270.7 | 5270.7 | 5270.7 | 5270.7 | | | | | | | | | | | | | | | |
| | .12 | .12 | .12 | .12 | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 183003.2 | 116108.8 | 176039.5 | 196333.9 | 178881.2 | 34523.0 | 52351.7 | | | | | | | | | | | | |
| | 3.5 | 2.2 | 3.4 | 3.7 | 3.4 | .7 | 1.7 | | | | | | | | | | | | |
| PERCENT REDUCTION: | 0.0 | 36.6 | 3.8 | -7.3 | 2.3 | 81.1 | 52.5 | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: TROCHETTE CRK | | CRAEJORDON | | COUNTY: LEWISTON, OHIO | | | | | |
|---------------------------------------|------------------------------------|---|---------------------------------|---------------------------|-------------------------|----------------------------------|---|-------------------------------------|---------------------------------------|
| LAND USE | EXISTING POT. GROSS EROSION (TONS) | REDUCE LOSS TO T. AND EXISTING ONLY (TONS) | SOIL SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CRP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: MISCELL. PLW AREA (TONS) | SOIL MOIST. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
| CROPLAND 1 | 69333.8 15.5 | 15033.9 3.4 | 67200.4 15.0 | 74133.8 16.6 | 67733.8 15.2 | 9133.4 2.1 | 28800.2 5.4 | 4470.1 | 4470.1 15.5 |
| CROPLAND 2 | 77967.2 3.7 | 59874.8 2.9 | 75568.2 3.6 | 83365.0 4.0 | 76168.0 3.7 | 10495.6 .5 | 32385.9 1.5 | 20438.4 | 14503.2 4.0 |
| CROPLAND 3 | 7552.8 3.4 | 6738.6 3.0 | 7120.4 3.3 | 8075.7 3.4 | 7378.5 3.3 | 7552.8 3.4 | 7552.8 3.4 | 2246.2 | 2246.2 3.4 |
| CROPLAND 4 | 8713.8 .9 | 8713.8 .9 | 8445.7 .6 | 9317.0 .9 | 4512.7 .8 | 3619.6 .4 | 3619.6 .4 | 10141.2 | 0.0 0.0 |
| CROPLAND 5 | 3430.8 1.4 | 3744.4 1.3 | 3809.8 1.4 | 4202.9 1.5 | 3840.1 1.4 | 1930.8 1.4 | 3930.9 1.4 | 2402.2 | 155.7 4.1 |
| CROPLAND 8 | 236.8 1.2 | 236.8 1.2 | 229.5 1.1 | 253.2 1.3 | 231.4 1.2 | 98.4 .5 | 98.4 .5 | 280.2 | 0.0 0.0 |
| CROPLAND 9 | 4708.6 1.2 | 4708.6 1.2 | 4563.7 1.1 | 5034.5 1.2 | 4599.9 1.1 | 4708.6 1.2 | 4708.6 1.2 | 4092.1 | 0.0 0.0 |
| CROPLAND 10 | 30985.3 92.9 | 1000.8 3.0 | 30032.9 90.0 | 33131.5 99.3 | 30271.2 90.7 | 4171.2 12.5 | 12871.2 39.5 | 333.6 | 333.6 42.9 |
| CROPLAND | 203430.1 4.5 | 100061.7 2.2 | 197170.6 4.4 | 217513.6 4.8 | 198735.6 4.4 | 43910.4 1.0 | 93968.3 2.1 | 45124.0 | |
| VINEYARDS AND ORCH. | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 1579.0 (ACRES) | | | | |
| PASTURE AND PASTURE | 111.5 867.3 .13 | 111.5 (TONS) 867.3 (ACRES) .13 (TONS/ACRE) | OTHER LAND USE AREA | 3447.1 (ACRES) | | | | | |
| WOODLAND | 528.2 4648.0 .11 | 528.2 (TONS) 4648.0 (ACRES) .11 (TONS/ACRE) | MISSING DATA | 32981.1 (ACRES) | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 336979.3 4.0 | 166287.8 2.0 | 326643.1 3.9 | 360235.4 4.3 | 329227.3 3.9 | 73565.3 .9 | 156225.2 1.9 | 43620.4 | |
| PERCENT REDUCTION: | 0.0 | 50.7 | 3.1 | -6.9 | 2.3 | 78.2 | 53.5 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: TIMOCHTEE CREEK | | COUNTY: 12 HARDIN, OHIO | | | | | | | | | |
|---------------------------------------|------------------------------------|--|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|-----------------------------------|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | EXISTING POT. LOSS TO T. AND EXISTING ONLY (TONS/ACRE) | REDUCE SOIL PLACING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) | | |
| | | | | | | | | | | | |
| CROPLAND 1 | 13718.9 | 3708.6 | 13176.6 | 14532.2 | 13230.8 | 1789.4 | 5802.0 | 1378.8 | 1223.2 | | |
| SWC | 9.9 | 2.7 | 9.6 | 10.5 | 9.6 | 1.3 | 6.2 | | 11.0 | | |
| CROPLAND 2 | 26784.8 | 16312.4 | 25726.1 | 28172.8 | 25812.0 | 3493.7 | 11329.0 | 7161.1 | 2513.1 | | |
| SWC | 3.7 | 2.3 | 3.6 | 4.0 | 3.6 | .5 | 1.6 | | 7.2 | | |
| CROPLAND 3 | 668.0 | 668.0 | 641.6 | 707.6 | 644.2 | 668.0 | 668.0 | 289.1 | 0.0 | | |
| SWC | 2.3 | 2.3 | 2.2 | 2.4 | 2.2 | 2.3 | 2.3 | | 0.0 | | |
| CROPLAND 4 | 4084.3 | 4084.3 | 3922.9 | 4326.4 | 3539.0 | 1727.4 | 1727.4 | 5204.0 | 0.0 | | |
| SWC | .8 | .8 | .8 | .4 | .8 | .3 | .3 | | 0.0 | | |
| CROPLAND 5 | 399.2 | 399.2 | 383.4 | 422.8 | 385.0 | 399.2 | 399.2 | 289.1 | 0.0 | | |
| SWC | 1.4 | 1.4 | 1.3 | 1.5 | 1.3 | 1.4 | 1.4 | | 0.0 | | |
| CROPLAND 8 | 69.6 | 69.6 | 66.8 | 73.7 | 67.1 | 29.4 | 29.4 | 89.3 | 0.0 | | |
| SWC | .8 | .8 | .8 | .4 | .8 | .3 | .3 | | 0.0 | | |
| CROPLAND 9 | 73.1 | 73.1 | 70.3 | 77.5 | 70.5 | 73.1 | 73.1 | 66.7 | 0.0 | | |
| SWC | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | 1.1 | 1.1 | | 0.0 | | |
| CROPLAND | 45797.9 | 25315.2 | 43987.7 | 48513.3 | 44164.6 | 4180.2 | 20027.1 | 14477.3 | | | |
| SWC | 3.2 | 1.7 | 3.0 | 3.4 | 3.1 | .6 | 1.4 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 355.8 | 355.8 | | | | |
| GRASSLAND AND PASTURE | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 445.1 | 445.1 | | | | |
| SWC | .06 | .06 | .06 | .06 | .06 | | | | | | |
| WOODLAND | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 | 11475.5 | 11475.5 | | | | |
| SWC | 1023.4 | 1023.4 | 1023.4 | 1023.4 | 1023.4 | | | | | | |
| SWC | .05 | .05 | .05 | .05 | .05 | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 80596.9 | 44599.3 | 77415.5 | 85368.5 | 77415.5 | 14485.5 | 35105.3 | 27554.5 | | | |
| PERCENT REDUCTION: | 0.0 | 44.7 | 3.9 | -5.9 | 3.6 | 42.0 | 56.2 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS
U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| COUNTY: 13 MARICOPA, AZ | | | | | | | | | |
|---------------------------------------|---|--------------------------------|-------------------------------|--------------------------|---------------------|---------------------------------------|------------------------------------|-------------------------|--|
| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING ONLY (TONS) | SOIL PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS) | WINTER COVER (TONS) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOW (TONS) | SOIL GROUP AREA (ACRES) | EXISTING SOIL LOSS T. FACTOR (TONS/ACRE) |
| 230PLAND 1 | 4806.6 | 1648.0 | 4610.1 | 5110.4 | 4574.4 | 589.7 | 1929.5 | 556.0 | 956.0 |
| SWG | 8.6 | 3.0 | 8.3 | 9.2 | 8.2 | 1.1 | 3.5 | | 8.6 |
| 230PLAND 2 | 2942.6 | 2942.6 | 2822.3 | 3128.5 | 2830.4 | 361.0 | 1181.4 | 1178.7 | 0.0 |
| SWG | 2.5 | 2.5 | 2.4 | 2.7 | 2.4 | .3 | 1.0 | | 0.0 |
| 230PLAND 3 | 10969.6 | 4069.8 | 10521.1 | 11662.9 | 10439.5 | 10369.6 | 10969.5 | 1356.6 | 1356.6 |
| SWG | 8.1 | 3.0 | 7.8 | 8.6 | 7.7 | 8.1 | 9.1 | | 8.1 |
| 230PLAND 4 | 2424.0 | 2424.0 | 2324.9 | 2577.2 | 2306.9 | 973.2 | 973.2 | 2546.3 | 0.0 |
| SWG | .9 | .2 | .9 | 1.3 | .9 | .4 | .4 | | 0.0 |
| 230PLAND 5 | 3730.1 | 1748.5 | 3577.6 | 3965.8 | 3549.6 | 3730.1 | 3730.1 | 711.7 | 467.0 |
| SWG | 5.2 | 2.5 | 5.0 | 5.6 | 5.0 | 5.2 | 5.2 | | 7.2 |
| 230PLAND 6 | 160.1 | 160.1 | 153.5 | 170.2 | 152.3 | 64.3 | 64.3 | 133.4 | 0.0 |
| SWG | 1.2 | 1.2 | 1.2 | 1.3 | 1.1 | .5 | .5 | | 0.0 |
| 230PLAND 7 | 158.3 | 158.3 | 151.8 | 164.3 | 150.6 | 158.3 | 158.3 | 133.4 | 0.0 |
| SWG | 1.2 | 1.2 | 1.1 | 1.3 | 1.1 | 1.2 | 1.2 | | 0.0 |
| 230PLAND 8 | 25191.3 | 13171.3 | 24161.3 | 26783.4 | 23973.9 | 16446.2 | 19005.7 | 6716.3 | |
| SWG | 3.8 | 2.3 | 3.5 | 4.0 | 3.6 | 2.5 | 2.4 | | |
| WINERYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 22.2 (ACRES) | | | |
| | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | | | | |
| | 0.0 | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | | | | |
| 230PLAND 9 | 9.4 | 9.4 (TONS) | 9.4 (TONS) | 9.4 (TONS) | 333.6 (ACRES) | | | | |
| SWG | 89.0 | 89.0 (TONS) | 89.0 (TONS) | 89.0 (TONS) | 333.6 (ACRES) | | | | |
| | .11 | .11 (TONS/ACRE) | .11 (TONS/ACRE) | .11 (TONS/ACRE) | | | | | |
| 230PLAND 10 | 9.5 | 9.5 (TONS) | 9.5 (TONS) | 9.5 (TONS) | 21594.5 (ACRES) | | | | |
| SWG | 244.6 | 244.6 (TONS) | 244.6 (TONS) | 244.6 (TONS) | 21594.5 (ACRES) | | | | |
| | .04 | .04 (TONS/ACRE) | .04 (TONS/ACRE) | .04 (TONS/ACRE) | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 102431.4 | 53503.6 | 94246.4 | 108900.2 | 97485.0 | 68524.5 | 77302.4 | 24644.4 | |
| | 3.6 | 1.9 | 3.4 | 3.8 | 3.4 | 2.4 | 2.7 | | |
| PERCENT REDUCTION: | 0.0 | 47.7 | 4.1 | -6.3 | 4.8 | 33.1 | 24.3 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: TYMOCHEE CREEK | | CRAWFORD, OH | | COUNTY: 62 ALL IN BASIN | | | | | | | | | |
|---------------------------------------|----------------------|-----------------|--------------|-------------------------|----------------|--------------|-------------|-------------|--|--|--|--|--|
| LAND USE | EXISTING POT. REDUCE | SOIL SPRING | FALL | WINTER | MAXIMUM | REDUCED | SOIL MGMT. | EXISTING | | | | | |
| | GROSS | LOSS TO T | PLOWING | COVER | REDUCTION | TILLAGE: | GROUP LAND | SOIL LOSS | | | | | |
| | FROSTION | AND EXISTING | ONLY | CROP | TILLAGE | CHISEL P. 34 | AREA | FACTORS | | | | | |
| | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (ACRES) | (ACRES) | | | | | |
| | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | | | | | |
| CROPLAND 1 | 87859.2 | 20410.4 | 84987.1 | 93776.4 | 65538.9 | 11712.5 | 6405.0 | 6249.3 | | | | | |
| S46 | 13.7 | 3.2 | 13.3 | 14.6 | 13.4 | 5.7 | | 14.0 | | | | | |
| CROPLAND 2 | 107694.6 | 79129.6 | 104116.6 | 114666.3 | 104400.3 | 14350.2 | 29178.2 | 21016.3 | | | | | |
| S45 | 3.7 | 2.7 | 3.6 | 3.9 | 3.6 | 1.5 | | 4.4 | | | | | |
| CROPLAND 3 | 19190.4 | 11476.4 | 18483.0 | 26446.1 | 18462.2 | 19190.4 | 3991.3 | 3602.8 | | | | | |
| S46 | 4.9 | 2.9 | 4.7 | 5.3 | 4.7 | 4.9 | | 5.1 | | | | | |
| CROPLAND 4 | 15222.1 | 15222.1 | 14693.4 | 16220.7 | 14756.6 | 6320.1 | 17991.7 | 6.0 | | | | | |
| S45 | .8 | .8 | .8 | .9 | .8 | .4 | | 0.0 | | | | | |
| CROPLAND 5 | 8060.1 | 5902.1 | 7770.8 | 8591.6 | 7774.9 | 8060.1 | 3902.3 | 622.7 | | | | | |
| S46 | 2.1 | 1.6 | 2.0 | 2.3 | 2.0 | 2.1 | | 6.5 | | | | | |
| CROPLAND 8 | 466.5 | 466.5 | 449.9 | 497.1 | 450.8 | 192.1 | 422.5 | 0.0 | | | | | |
| S45 | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | .5 | | 0.0 | | | | | |
| CROPLAND 9 | 4948.0 | 4948.0 | 4785.7 | 5283.3 | 4821.0 | 4948.0 | 4292.2 | 0.0 | | | | | |
| S46 | 1.2 | 1.2 | 1.1 | 1.2 | 1.1 | 1.2 | | 0.0 | | | | | |
| CROPLAND 10 | 30946.3 | 1000.8 | 30032.9 | 33151.5 | 30271.2 | 12971.2 | 333.5 | 333.6 | | | | | |
| S46 | 92.9 | 3.0 | 90.0 | 99.3 | 96.7 | 38.6 | | 92.9 | | | | | |
| CROPLAND | 274419.2 | 138548.1 | 265319.4 | 292810.0 | 266277.9 | 133001.8 | 65318.0 | 133001.8 | | | | | |
| S46 | 4.1 | 2.1 | 4.0 | 4.4 | 4.0 | 2.3 | | 2.3 | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS/ACRE) | 1957.1 (ACRES) | | | | | | | | |
| GRASSLAND AND PASTURE | 131.3 | 131.3 (TONS) | OTHER LAND | 4625.8 (ACRES) | | | | | | | | | |
| | 1134.2 | 1134.2 (ACRES) | USE AREA | | | | | | | | | | |
| | .12 | .12 (TONS/ACRE) | | | | | | | | | | | |
| WOODLAND | 589.3 | 589.3 (TONS) | MISSING DATA | 66451.5 (ACRES) | | | | | | | | | |
| | 5915.7 | 5915.7 (ACRES) | | | | | | | | | | | |
| | .10 | .10 (TONS/ACRE) | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 524342.1 | 265408.5 | 507600.4 | 559390.1 | 509970.5 | 132747.9 | 157919.4 | 157919.4 | | | | | |
| | 3.8 | 1.9 | 3.6 | 4.0 | 3.6 | 1.3 | | | | | | | |
| PERCENT REDUCTION: | 0.0 | 49.4 | 3.3 | -6.7 | 2.7 | 74.7 | 51.4 | | | | | | |

LAKE ERIE WASTE/WATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: BROKEN SOUND CREEK | | NEVADA-CO | | COUNTY: 12 CRAWFORD, OHIO | | | | | | | | | | | | | | | |
|---------------------------------------|--|--|--------------------------------------|-------------------------------|--------------------------|---------------------------------------|-----------------------------|---|---------------------------------------|--|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL MGMT. SLOPE AND SLOPE AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) | | | | | | | | | | |
| CROPLAND 1 | 72997.5 | 41019.4 | 69651.8 | 77559.9 | 70800.4 | 10341.3 | 31632.3 | 9955.3 | 4.1 | | | | | | | | | | |
| SWG | 8.1 | 0.6 | 7.8 | 8.7 | 7.9 | 1.2 | 3.5 | | | | | | | | | | | | |
| CROPLAND 2 | 86604.7 | 59602.2 | 82635.5 | 92317.6 | 94374.7 | 12269.0 | 37529.7 | 20719.3 | 4.8 | | | | | | | | | | |
| SWG | 4.2 | 2.9 | 9.0 | 4.4 | 4.1 | .6 | 1.9 | | | | | | | | | | | | |
| CROPLAND 3 | 4981.7 | 4445.8 | 4658.0 | 5186.8 | 4739.3 | 4881.7 | 4981.7 | 2700.9 | 44.5 | | | | | | | | | | |
| SWG | 1.8 | 1.6 | 1.7 | 1.9 | 1.8 | 1.8 | 1.9 | | 13.4 | | | | | | | | | | |
| CROPLAND 4 | 4882.8 | 4882.8 | 4659.0 | 5188.0 | 4740.4 | 2115.9 | 2115.9 | 5125.7 | 0.0 | | | | | | | | | | |
| SWG | .8 | .8 | .8 | .8 | .8 | .3 | .3 | | 0.0 | | | | | | | | | | |
| CROPLAND 5 | 1181.8 | 1181.8 | 1127.6 | 1255.7 | 1147.3 | 1141.8 | 1181.8 | 1104.6 | 0.0 | | | | | | | | | | |
| SWG | 1.1 | 1.1 | 1.0 | 1.1 | 1.0 | 1.1 | 1.1 | | 0.0 | | | | | | | | | | |
| CROPLAND 10 | 8894.4 | 667.2 | 8486.8 | 9450.3 | 6635.0 | 1250.0 | 3490.3 | 155.7 | 155.7 | | | | | | | | | | |
| SWG | 57.1 | 4.3 | 54.5 | 60.7 | 55.5 | 8.1 | 28.4 | | 57.1 | | | | | | | | | | |
| CROPLAND | 179442.9 | 111794.2 | 171218.5 | 190658.3 | 174209.1 | 32049.7 | 81190.7 | 39771.7 | | | | | | | | | | | |
| SWG | 4.5 | 2.8 | 4.3 | 4.4 | 4.4 | .8 | 2.9 | | | | | | | | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | | | | | | | | | | | | |
| | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | | | | | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 53.8 | 53.8 (TONS) | 53.8 (TONS) | 53.8 (TONS) | 53.8 (TONS) | 53.8 (TONS) | 53.8 (TONS) | | | | | | | | | | | | |
| SWG | 775.9 | 775.9 (ACRES) | 775.9 (ACRES) | 775.9 (ACRES) | 775.9 (ACRES) | 775.9 (ACRES) | 775.9 (ACRES) | | | | | | | | | | | | |
| | .07 | .07 (TONS/ACRE) | .07 (TONS/ACRE) | .07 (TONS/ACRE) | .07 (TONS/ACRE) | .07 (TONS/ACRE) | .07 (TONS/ACRE) | | | | | | | | | | | | |
| WOODLAND | 337.1 | 337.1 (TONS) | 337.1 (TONS) | 337.1 (TONS) | 337.1 (TONS) | 337.1 (TONS) | 337.1 (TONS) | | | | | | | | | | | | |
| SWG | 3827.7 | 3827.7 (ACRES) | 3827.7 (ACRES) | 3827.7 (ACRES) | 3827.7 (ACRES) | 3827.7 (ACRES) | 3827.7 (ACRES) | | | | | | | | | | | | |
| | .09 | .09 (TONS/ACRE) | .09 (TONS/ACRE) | .09 (TONS/ACRE) | .09 (TONS/ACRE) | .09 (TONS/ACRE) | .09 (TONS/ACRE) | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 185802.0 | 115908.2 | 177394.7 | 197389.6 | 180394.5 | 33517.2 | 84293.2 | 45448.0 | | | | | | | | | | | |
| | 4.1 | 2.5 | 3.9 | 4.3 | 3.9 | .7 | 1.3 | | | | | | | | | | | | |
| PERCENT PRODUCTION: | 0.0 | 37.6 | 4.5 | -6.2 | 2.9 | 82.0 | 54.5 | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: BROKEN SWORD CREEK | | NEVADA-01 | | COUNTY: 11 WYANDOT, OHIO | | | | | | | | | | | | | | | |
|---------------------------|---|---|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | REDUCE LOSS TO T. AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T. FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) |
| CROPLAND 1 | 7810.3 | 2757.7 | 7569.9 | 8351.0 | 7630.0 | 1051.4 | 711.7 | 711.7 | 711.7 | 711.7 | 711.7 | 711.7 | 711.7 | 711.7 | 711.7 | 711.7 | 711.7 | 711.7 | 711.7 |
| SW6 | 11.0 | 3.9 | 10.6 | 11.7 | 10.7 | 1.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 |
| CROPLAND 2 | 3172.4 | 1932.7 | 3074.8 | 3392.0 | 3099.2 | 427.1 | 622.7 | 622.7 | 622.7 | 622.7 | 622.7 | 622.7 | 622.7 | 622.7 | 622.7 | 622.7 | 622.7 | 622.7 | 622.7 |
| SW6 | 5.1 | 3.1 | 4.9 | 5.4 | 5.0 | .7 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| CROPLAND 4 | 17.9 | 17.9 | 17.3 | 19.1 | 17.5 | 7.4 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 |
| SW6 | .8 | .8 | .8 | .9 | .8 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 |
| CROPLAND 5 | 157.4 | 157.4 | 152.6 | 158.3 | 153.8 | 157.4 | 111.2 | 111.2 | 111.2 | 111.2 | 111.2 | 111.2 | 111.2 | 111.2 | 111.2 | 111.2 | 111.2 | 111.2 | 111.2 |
| SW6 | 1.4 | 1.4 | 1.4 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| CROPLAND 10 | 2156.6 | 66.7 | 2090.3 | 2305.9 | 2106.9 | 290.3 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 |
| SW6 | 97.1 | 3.0 | 94.2 | 103.9 | 94.5 | 13.1 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 |
| CROPLAND | 13314.6 | 4932.4 | 12904.9 | 14256.3 | 13007.4 | 1933.6 | 1490.0 | 1490.0 | 1490.0 | 1490.0 | 1490.0 | 1490.0 | 1490.0 | 1490.0 | 1490.0 | 1490.0 | 1490.0 | 1490.0 | 1490.0 |
| SW6 | 8.9 | 3.3 | 8.7 | 9.6 | 6.7 | 1.3 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 |
| SW6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRASSLAND AND PASTURE | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 |
| SW6 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 |
| WOODLAND | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 2223.5 | 2223.5 | 2223.5 | 2223.5 | 2223.5 | 2223.5 | 2223.5 | 2223.5 | 2223.5 | 2223.5 | 2223.5 | 2223.5 | 2223.5 | 2223.5 |
| SW6 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 |
| SW6 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 | 177.9 |
| SW6 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 |
| SW6 | 36837.4 | 11369.2 | 29695.6 | 32756.1 | 29931.2 | 4475.8 | 3936.3 | 3936.3 | 3936.3 | 3936.3 | 3936.3 | 3936.3 | 3936.3 | 3936.3 | 3936.3 | 3936.3 | 3936.3 | 3936.3 | 3936.3 |
| SW6 | 7.8 | 2.9 | 7.5 | 8.3 | 7.6 | 1.1 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| PERCENT REDUCTION: | 0.0 | 62.9 | 3.1 | -6.9 | 2.3 | 85.4 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 42 ALL IN BASIN

WATER: BROOKLYN CREEK NEVADA, 04

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MOIST. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
|----------|--|--------------------------------|--------------------------|---------------------|----------------------------------|--|-------------------------------------|---------------------------------------|
| 1 | 8087.7 | 43772.1 | 7221.7 | 85910.8 | 74898.4 | 11392.7 | 3676.5 | 9676.6 |
| 2 | 49777.1 | 61534.9 | 85719.1 | 95409.5 | 97177.9 | 12596.1 | 21342.3 | 15204.4 |
| 3 | 4081.7 | 4445.8 | 4658.0 | 5186.8 | 4739.3 | 4981.7 | 2700.9 | 44.5 |
| 4 | 4900.7 | 4900.7 | 4576.3 | 5207.1 | 4757.9 | 2123.3 | 5148.8 | 13.4 |
| 5 | 1339.2 | 1339.2 | 1280.2 | 1424.0 | 1301.1 | 1339.2 | 1215.9 | 0.0 |
| 6 | 11051.0 | 733.9 | 10577.0 | 11756.2 | 10741.9 | 1590.4 | 177.9 | 0.0 |
| 7 | 192757.4 | 116726.6 | 154123.3 | 204894.5 | 187216.5 | 33983.4 | 86817.3 | 177.9 |
| 8 | 4.7 | 2.8 | 4.5 | 5.0 | 4.5 | .8 | 2.1 | 62.1 |
| 9 | 0.0 | 0.0 | 0.0 | 0.0 | 652.4 | 0.0 | 0.0 | 0.0 |
| 10 | 56.3 | 56.3 | 56.3 | 1875.5 | 1875.5 | 0.0 | 0.0 | 0.0 |
| 11 | 828.4 | 828.4 | 828.4 | 1875.5 | 1875.5 | 0.0 | 0.0 | 0.0 |
| 12 | 348.1 | 348.1 | 348.1 | 3496.7 | 3496.7 | 0.0 | 0.0 | 0.0 |
| 13 | 4005.6 | 4005.6 | 4005.6 | 4005.6 | 4005.6 | 0.0 | 0.0 | 0.0 |
| 14 | 206655.3 | 126526.1 | 199328.7 | 221765.9 | 202678.0 | 37146.0 | 94217.9 | 43784.4 |
| 15 | 4.2 | 2.5 | 4.0 | 4.5 | 4.1 | .7 | 1.9 | 1.9 |
| 16 | 0.0 | 39.4 | 4.5 | -6.3 | 2.9 | 82.2 | 50.9 | 50.9 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: WOLF CREEK, WEST BRANCH BETTSVILLE, OH | | | | | | | | | | COUNTY: 03 SEMPER, OHIO | | | | | | | | | |
|---|------------------------------------|--|---------------------------------|--------------------------|---------------------|------------------------|------------------------|------------------------------------|---|-------------------------|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING POT. GROSS EROSION (TONS) | LOSS TO PLOWING AND EXISTING ONLY (TONS) | SOIL SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER (TONS) | MAXIMUM TILLAGE (TONS) | REDUCED TILLAGE (TONS) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | | | | | | | | | | |
| 1 CROPLAND | 3691.3 | 3713.6 | 3694.3 | 4186.9 | 3691.3 | 574.7 | 1724.0 | 1067.5 | 89.0 | | | | | | | | | | |
| 346 | 3.6 | 3.5 | 3.5 | 3.9 | 3.6 | .5 | 1.5 | | 6.0 | | | | | | | | | | |
| 2 CROPLAND | 3692.4 | 3630.5 | 35024.4 | 39694.4 | 3692.4 | 5448.2 | 16344.7 | 12384.9 | 11050.5 | | | | | | | | | | |
| 346 | 3.0 | 2.9 | 2.8 | 3.2 | 3.0 | .4 | 1.3 | | 3.1 | | | | | | | | | | |
| 3 CROPLAND | 4290.1 | 4290.1 | 4072.9 | 4616.0 | 4290.1 | 4290.1 | 4290.1 | 2713.2 | 0.0 | | | | | | | | | | |
| 343 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.5 | | 0.0 | | | | | | | | | | |
| 4 CROPLAND | 13531.3 | 13531.3 | 12846.2 | 14559.0 | 13531.3 | 5994.9 | 5994.9 | 14322.2 | 0.0 | | | | | | | | | | |
| 346 | .9 | .9 | .9 | 1.0 | .9 | .4 | .4 | | 6.0 | | | | | | | | | | |
| 5 CROPLAND | 315.2 | 315.2 | 299.2 | 339.1 | 315.2 | 315.2 | 315.2 | 289.1 | 0.0 | | | | | | | | | | |
| 343 | 1.1 | 1.1 | 1.0 | 1.2 | 1.1 | 1.1 | 1.1 | | 0.0 | | | | | | | | | | |
| 6 CROPLAND | 21.4 | 21.4 | 20.3 | 23.0 | 21.4 | 9.5 | 9.5 | 22.2 | 0.0 | | | | | | | | | | |
| 346 | 1.0 | 1.0 | .9 | 1.0 | 1.0 | .4 | .4 | | 0.0 | | | | | | | | | | |
| 7 CROPLAND | 2763.7 | 66.7 | 2623.8 | 2973.5 | 2763.7 | 408.1 | 1224.4 | 22.2 | 22.2 | | | | | | | | | | |
| 346 | 124.5 | 3.0 | 118.2 | 133.9 | 124.5 | 18.4 | 55.2 | | 124.5 | | | | | | | | | | |
| 8 CROPLAND | 61785.4 | 58238.6 | 56581.1 | 66342.0 | 61785.4 | 17040.7 | 29302.3 | 30921.3 | | | | | | | | | | | |
| 346 | 2.0 | 1.9 | 1.9 | 2.2 | 2.0 | .6 | 1.3 | | | | | | | | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 1156.5 (ACRES) | | | | | | | | | | | | | | |
| 0.00 | 0.00 | 0.00 (TONS/ACRE) | AREA ONLY | | | | | | | | | | | | | | | | |
| 9 PASTURE AND PASTURE | 11.5 | 11.5 (TONS) | OTHER LAND | 2624.4 (ACRES) | | | | | | | | | | | | | | | |
| 489.3 | 489.3 | 489.3 (ACRES) | USE AREA | | | | | | | | | | | | | | | | |
| .02 | .02 | .02 (TONS/ACRE) | | | | | | | | | | | | | | | | | |
| 10 WOODLAND | 60.3 | 60.3 (TONS) | MISSING DATA | 4447.9 (ACRES) | | | | | | | | | | | | | | | |
| 1645.7 | 1645.7 | 1645.7 (ACRES) | | | | | | | | | | | | | | | | | |
| .04 | .04 | .04 (TONS/ACRE) | | | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | | | | | | | |
| 70114.9 | 66180.4 | 66568.9 | 75434.0 | 70114.9 | 19422.1 | 34020.1 | 37404.2 | | | | | | | | | | | | |
| 1.9 | 1.8 | 1.8 | 2.0 | 1.9 | .5 | .3 | | | | | | | | | | | | | |
| PERCENT REDUCTION: | | | | | | | | | | | | | | | | | | | |
| 0.0 | 5.6 | 5.1 | -7.6 | 0.0 | 72.3 | 51.5 | | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: VOLF CREEK, WEST BRANCH BETTSVILLE, OH COUNTY: 10 WANCOCK, OH

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | EXISTING POTENTIAL GROSS EROSION AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE) | SOIL WENT STILL LAND AREA (ACRES) | EXISTING SOIL LOSS > 7 FACTOR (ACRES) |
|---------------------------------------|---|--|-------------------------------------|-------------------------------------|--|---|--|--|
| ROWLAND 2 | 408.7 | 408.7 | 345.6 | 424.1 | 388.7 | 52.4 | 175.4 | 0.0 |
| 546 | 2.3 | 2.3 | 2.2 | 2.4 | 2.2 | .3 | .3 | 0.0 |
| ROWLAND A | 26.4 | 26.4 | 24.9 | 27.4 | 25.1 | 10.7 | 22.2 | 0.0 |
| 546 | 1.2 | 1.2 | 1.1 | 1.2 | 1.1 | .5 | .5 | 0.0 |
| ROWLAND | 435.1 | 435.1 | 410.5 | 451.5 | 413.8 | 63.1 | 175.7 | 0.0 |
| 546 | 2.2 | 2.2 | 2.1 | 2.3 | 2.1 | .3 | .3 | 0.0 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRASSLAND AND PASTURE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WOODLAND | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 |
| 546 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 0.0 | 0.0 | 0.0 |
| 546 | .04 | .04 | .04 | .04 | .04 | 0.0 | 0.0 | 0.0 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 436.8 | 436.8 | 412.2 | 453.2 | 415.5 | 64.8 | 177.4 | 237.1 |
| PERCENT REDUCTION: | 0.0 | 0.0 | 5.6 | -3.8 | 4.9 | 85.2 | 59.4 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

WOLF CREEK+WEST BRANCH BETTSVILLE+OH COUNTY: 62 ALL IN BASIN

| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) |
|--------------------------------------|---|-------------------------------|---|----------------------------------|--|------------------------------------|---|
| CROPLAND 1 SUG | 3891.3 3.6 | 3713.6 3.5 | 3694.3 3.5 | 4186.9 3.9 | 3891.3 3.6 | 574.7 .5 | 1724.3 1.5 |
| CROPLAND 2 SUG | 37301.1 3.0 | 36709.2 2.9 | 35410.0 2.8 | 40118.5 3.2 | 37281.0 3.0 | 5500.7 .4 | 16509.8 1.3 |
| CROPLAND 3 SUG | 4290.1 1.6 | 4072.9 1.5 | 4072.9 1.5 | 4616.0 1.7 | 4290.1 1.6 | 4290.1 1.6 | 4290.1 1.6 |
| CROPLAND 4 SUG | 13531.3 .9 | 13531.3 .9 | 12846.2 .9 | 14559.0 1.0 | 13531.3 .9 | 5994.9 .4 | 5994.9 .4 |
| CROPLAND 5 SUG | 315.2 1.1 | 315.2 1.1 | 299.2 1.0 | 359.1 1.2 | 315.2 1.1 | 315.2 1.1 | 315.2 1.1 |
| CROPLAND 8 SUG | 47.0 1.1 | 47.0 1.1 | 45.3 1.0 | 50.5 1.1 | 46.5 1.0 | 20.2 .5 | 20.2 .5 |
| CROPLAND 10 SUG | 2763.7 124.5 | 66.7 3.0 | 2623.8 118.2 | 2973.6 133.9 | 2763.7 124.5 | 408.1 18.4 | 1224.4 55.2 |
| CROPLAND 10 SUG | 62140.5 2.0 | 58673.9 1.9 | 58991.7 1.9 | 66443.6 2.2 | 62119.1 2.0 | 17103.9 .6 | 30078.5 1.3 |
| VINEYARDS AND ORCH. | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 1156.5 (ACRES) | | |
| GRASSLAND AND PASTURE | 11.5 489.3 | 11.5 (TONS) 489.3 (ACRES) | OTHER LAND USE AREA 0.02 (TONS/ACRE) | 2624.4 (ACRES) | | | |
| WOODLAND | 62.1 1685.3 | 62.1 (TONS) 1685.3 (ACRES) | MISSING DATA 0.0 (TONS/ACRE) | 4447.9 (ACRES) | | | |
| ANNUAL TOTAL POTENTIAL GROSS EROSION | 70550.7 1.9 | 66619.6 1.8 | 66980.0 1.8 | 75884.0 2.0 | 70526.4 1.9 | 19479.3 .5 | 34192.5 .3 |
| PERCENT REDUCTION: | 0.0 | 5.6 | 5.1 | -7.6 | .6 | 72.4 | 51.5 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: WOLF CREEK-EAST BRANCH BETTSVILLE-ON | | | | | | | | | | COUNTY: OS SENECA, OHIO | | | ALL IN BASIN | | |
|---|--|---|--------------------------|--------------------------|----------------------------------|--|-------------------------------|---------------------------------------|---|-------------------------|--|--|--------------|--|--|
| LAND USE | EXISTING POT-REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) | EXISTING POT-REDUCE SOIL SPRING LOSS TO T PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISPL 0.04 AREA (TONS) | SOIL WENT. 2033+ LAND (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | | | | | | |
| 1-CROPLAND 1 | 2959.3 | 2446.4 | 2809.4 | 314.0 | 2959.3 | 437.0 | 1311.1 | 620.4 | 195.7 | | | | | | |
| 2-CROPLAND 2 | 4868.6 | 4683.4 | 46223.4 | 5238.5 | 4868.6 | 7190.3 | 21570.3 | 15478.7 | 15279.5 | | | | | | |
| 3-CROPLAND 3 | 5821.5 | 5821.5 | 5526.4 | 6263.7 | 5821.5 | 5821.5 | 5821.5 | 3586.8 | 0.0 | | | | | | |
| 4-CROPLAND 4 | 3677.9 | 3677.9 | 3491.7 | 3957.2 | 3677.9 | 1629.5 | 1629.5 | 4097.0 | 0.0 | | | | | | |
| 5-CROPLAND 5 | 431.6 | 431.6 | 409.8 | 468.4 | 431.6 | 431.6 | 431.6 | 400.3 | 0.0 | | | | | | |
| 6-CROPLAND 6 | 67.8 | 67.8 | 64.4 | 72.9 | 67.8 | 38.0 | 38.0 | 66.7 | 0.0 | | | | | | |
| 7-CROPLAND 7 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .4 | .4 | .4 | 0.0 | | | | | | |
| 8-CROPLAND 8 | 61646.7 | 59297.0 | 54525.5 | 66328.7 | 61646.7 | 15539.9 | 30794.6 | 24549.9 | 1.3 | | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 578.2 | 578.2 | 578.2 | 0.0 | | | | | | |
| GRASSLAND AND PASTURE | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 2041.1 | 2041.1 | 2041.1 | 0.0 | | | | | | |
| WOODLAND | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 22708.9 | 22708.9 | 22708.9 | 0.0 | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | | | |
| 113497.8 | | | | | | | | | | 122103.1 | | | 43988.9 | | |
| 2.5 | | | | | | | | | | 2.5 | | | 1.1 | | |
| PERCENT REDUCTION: | | | | | | | | | | -7.5 | | | 58.3 | | |
| 8.0 | | | | | | | | | | 0.0 | | | 74.7 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | COUNTY: 02 CRAWFORD, OHIO | | | | | | | | | |
|---------------------------------------|---|---|--------------------------|--------------------------|----------------------------------|--|------------------------------------|--|--|--|--|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T. FACTOR (TONS/ACRE) | | | |
| CROPLAND | 43893.4 | 26809.3 | 41118.3 | 45786.8 | 41836.5 | 6104.9 | 4991.5 | 4991.5 | | | |
| 546 1 | 8.6 | 5.0 | 8.2 | 9.2 | 8.4 | 3.7 | 8.6 | 8.6 | | | |
| CROPLAND | 66458.8 | 47564.3 | 63412.8 | 70612.5 | 64520.5 | 9435.0 | 16803.1 | 12147.7 | | | |
| 546 2 | 9.0 | 2.8 | 3.8 | 4.2 | 3.8 | 1.7 | 9.6 | 9.6 | | | |
| CROPLAND | 5496.8 | 5496.8 | 5244.9 | 5840.3 | 5336.5 | 5496.8 | 3261.8 | 0.0 | | | |
| 546 3 | 1.7 | 1.7 | 1.6 | 1.8 | 1.6 | 1.7 | 0.0 | 0.0 | | | |
| CROPLAND | 5685.9 | 5685.9 | 5425.3 | 6041.3 | 5520.1 | 2463.9 | 6355.5 | 0.0 | | | |
| 546 4 | .9 | .9 | .9 | 1.0 | .9 | .4 | 0.0 | 0.0 | | | |
| CROPLAND | 748.5 | 748.5 | 714.2 | 795.3 | 726.7 | 748.5 | 790.7 | 0.0 | | | |
| 546 5 | .9 | .9 | .9 | 1.0 | .9 | .9 | 0.0 | 0.0 | | | |
| CROPLAND | 554.5 | 39.5 | 529.1 | 589.2 | 538.3 | 78.6 | 9.9 | 9.9 | | | |
| 546 10 | 56.0 | 4.0 | 55.4 | 59.5 | 54.4 | 24.3 | 56.0 | 56.0 | | | |
| CROPLAND | 122037.9 | 84344.3 | 116444.6 | 129665.4 | 118478.6 | 24307.7 | 32212.5 | 32212.5 | | | |
| 546 | 3.8 | 2.6 | 3.6 | 4.0 | 3.7 | 1.8 | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 266.9 (ACRES) | 0.0 (ACRES) | 0.0 | | | | | |
| 546 | 0.00 | 0.00 (TONS/ACRE) | | | | | | | | | |
| GRASSLAND AND PASTURE | 17.1 | 17.1 (TONS) | OTHER LAND USE AREA | 1591.4 (ACRES) | 1591.4 (ACRES) | | | | | | |
| 546 | 316.3 | 316.3 (ACRES) | | | | | | | | | |
| WOODLAND | 220.7 | 220.7 (TONS) | MISSING DATA | 553.5 (ACRES) | 553.5 (ACRES) | | | | | | |
| 546 | 3271.7 | 3271.7 (ACRES) | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 124166.2 | 85889.8 | 118486.4 | 131911.6 | 120551.4 | 24925.0 | 36354.0 | 36354.0 | | | |
| PERCENT REDUCTION: | 0.0 | 30.8 | 4.6 | -6.2 | 2.9 | 79.9 | 53.7 | 53.7 | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : FERT MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | COUNTY: CATTARAUGUS, NY | | | | | | | | | |
|--|--|------------------------------------|-------------------------------|-------------------------------|---------------------------------------|--|------------------------------------|---|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO 1 PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM VILLAGE REDUCTION (TONS/ACRE) | REDUCED VILLAGE CHISEL PLOW AREA (ACRES) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | | | |
| 1 CROPLAND | 28993.8 | 14270.3 | 27525.8 | 31195.9 | 28993.8 | 4281.4 | 4121.7 | 2899.9 | | | |
| 2 CROPLAND | 130285.6 | 102316.2 | 123688.2 | 140148.7 | 139285.6 | 19240.5 | 35454.5 | 11330.2 | | | |
| 3 CROPLAND | 9445.2 | 9445.2 | 9445.2 | 9445.2 | 9445.2 | 9445.2 | 5970.1 | 0.0 | | | |
| 4 CROPLAND | 953.0 | 953.0 | 904.8 | 953.0 | 953.0 | 422.2 | 1156.3 | 0.0 | | | |
| 5 CROPLAND | 1009.6 | 1009.6 | 958.5 | 1009.6 | 1009.6 | 1009.6 | 1037.0 | 0.0 | | | |
| 6 CROPLAND | 148.6 | 148.6 | 133.5 | 151.3 | 148.6 | 62.3 | 139.4 | 0.0 | | | |
| 7 CROPLAND | 6141.6 | 148.3 | 5830.5 | 6508.0 | 6141.6 | 907.0 | 49.4 | 49.4 | | | |
| 8 CROPLAND | 124.3 | 3.0 | 118.0 | 133.8 | 124.3 | 16.4 | 55.1 | 124.3 | | | |
| 9 CROPLAND | 176969.4 | 128283.2 | 168009.1 | 18410.2 | 174969.4 | 35368.6 | 47328.5 | 1.8 | | | |
| 10 VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 642.5 | 0.0 | 0.0 | | | |
| 11 GRASSLAND AND PASTURE | 62.8 | 62.8 | 523.9 | 3083.9 | 3083.9 | 3083.9 | 0.0 | 0.0 | | | |
| 12 WOODLAND | 679.9 | 679.9 | 7205.6 | 1245.4 | 1245.4 | 1245.4 | 0.0 | 0.0 | | | |
| 13 SUMMARY TOTAL POTENTIAL GROSS EROSION | 181608.6 | 131913.0 | 172527.4 | 18410.2 | 181608.6 | 34919.3 | 55903.0 | 1.5 | | | |
| PERCENT REDUCTION: | 0.0 | 27.4 | 5.0 | -7.6 | 0.0 | 79.7 | 52.2 | 0.6 | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | MOUTH | | COUNTY: ON MURON, OHIO | | | | | | | | | | | | | | | |
|---------------------------------------|---------------------|-------------------|-------------|------------------------|-------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| LAND USE | EXISTING POT-REDUCE | SOIL SPRING | FALL | WINTER | MAXIMUM | REDUCED | SOIL MGMT. | EXISTING | SOIL LOSS | EXISTING | SOIL MGMT. | EXISTING | SOIL LOSS | EXISTING | SOIL MGMT. | EXISTING | SOIL LOSS | EXISTING | SOIL MGMT. |
| | GROSS | LOSS TO T PLOWING | PLOWING | COVER | REDUCTION | WILLAGE: CHISEL PLOW AREA | GROUP LAND | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS | SOIL LOSS |
| | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) |
| | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) |
| CROPLAND 1 | 6211.7 | 3162.9 | 5917.1 | 6506.3 | 5941.6 | 859.3 | 532.5 | 632.6 | 9.8 | 632.6 | 9.8 | 632.6 | 9.8 | 632.6 | 9.8 | 632.6 | 9.8 | 632.6 | 9.8 |
| CROPLAND 2 | 11387.3 | 10368.5 | 10847.2 | 11927.4 | 10842.2 | 1575.3 | 3449.5 | 3449.5 | 3.3 | 3449.5 | 3.3 | 3449.5 | 3.3 | 3449.5 | 3.3 | 3449.5 | 3.3 | 3449.5 | 3.3 |
| CROPLAND 3 | 95.1 | 88.9 | 90.5 | 99.6 | 90.9 | 95.1 | 39.5 | 39.5 | 9.9 | 39.5 | 9.9 | 39.5 | 9.9 | 39.5 | 9.9 | 39.5 | 9.9 | 39.5 | 9.9 |
| CROPLAND 4 | 1746.0 | 1746.0 | 1663.2 | 1628.6 | 1670.1 | 731.5 | 1255.3 | 1255.3 | 0.8 | 1255.3 | 0.8 | 1255.3 | 0.8 | 1255.3 | 0.8 | 1255.3 | 0.8 | 1255.3 | 0.8 |
| CROPLAND 5 | 1540.5 | 1540.5 | 1467.5 | 1613.6 | 1473.5 | 1540.5 | 1690.2 | 1690.2 | 0.0 | 1690.2 | 0.0 | 1690.2 | 0.0 | 1690.2 | 0.0 | 1690.2 | 0.0 | 1690.2 | 0.0 |
| CROPLAND 6 | 20988.6 | 16906.8 | 19885.5 | 21975.7 | 20068.3 | 4401.7 | 7067.2 | 7067.2 | 0.0 | 7067.2 | 0.0 | 7067.2 | 0.0 | 7067.2 | 0.0 | 7067.2 | 0.0 | 7067.2 | 0.0 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRASSLAND AND PASTURE | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 0.0 | 79.3 | 0.0 | 79.3 | 0.0 | 79.3 | 0.0 | 79.3 | 0.0 | 79.3 | 0.0 |
| WOODLAND | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 0.0 | 52.6 | 0.0 | 52.6 | 0.0 | 52.6 | 0.0 | 52.6 | 0.0 | 52.6 | 0.0 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 21166.5 | 17067.3 | 20165.2 | 22107.7 | 20244.5 | 4407.0 | 7996.3 | 7996.3 | 0.0 | 7996.3 | 0.0 | 7996.3 | 0.0 | 7996.3 | 0.0 | 7996.3 | 0.0 | 7996.3 | 0.0 |
| PERCENT REDUCTION: | 0.0 | 19.4 | 4.7 | -4.7 | 4.3 | 76.9 | 53.4 | 53.4 | 0.0 | 53.4 | 0.0 | 53.4 | 0.0 | 53.4 | 0.0 | 53.4 | 0.0 | 53.4 | 0.0 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIO

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 11 LYNDOT, OHIO

WATER

BASEIN: HONEY CREEK

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER CROP (TONS) | MAXIMUM TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MOIST. STORING LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
|----------|--|--|--------------------------|--------------------|------------------------|---|---------------------------------------|---------------------------------------|
| 1 | 136.1 | 89.0 | 131.9 | 132.9 | 18.3 | 56.3 | 19.8 | 19.8 |
| 2 | 1630.5 | 1373.6 | 1590.3 | 1592.9 | 219.5 | 677.5 | 504.1 | 316.3 |
| 3 | 3.2 | 2.7 | 3.1 | 3.2 | .4 | 1.3 | 3.8 | 3.8 |
| 4 | 294.4 | 294.4 | 245.3 | 247.6 | 122.3 | 122.3 | 197.7 | 0.0 |
| 5 | 13.1 | 13.1 | 12.5 | 12.7 | 13.1 | 13.1 | 9.3 | 0.0 |
| 6 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 3.0 |
| 7 | 2074.1 | 1778.1 | 2010.1 | 2026.1 | 373.2 | 862.2 | 731.5 | 1.2 |
| 8 | 2.9 | 2.4 | 2.7 | 2.8 | .5 | 1.2 | | |
| 9 | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | | | |
| 10 | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | | | | | |
| 11 | 0.0 | 0.00 (TONS/ACRE) | | | | | | |
| 12 | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 9.9 (ACRES) | 9.9 (ACRES) | | | |
| 13 | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | | | | | |
| 14 | 0.0 | 0.00 (TONS/ACRE) | | | | | | |
| 15 | 2.6 | 2.6 (TONS) | MISSING DATA | 19.8 (ACRES) | | | | |
| 16 | 39.5 | 39.5 (ACRES) | | | | | | |
| 17 | .07 | .07 (TONS/ACRE) | | | | | | |
| 18 | 2130.0 | 1818.2 | 2064.4 | 2080.8 | 385.5 | 894.2 | 798.9 | 1.1 |
| 19 | 2.7 | 2.3 | 2.6 | 2.6 | .5 | 1.1 | | |
| 20 | 0.0 | 14.6 | 3.1 | 2.3 | 81.9 | 58.0 | | |
| 21 | 0.0 | | | | | | | |
| 22 | 0.0 | | | | | | | |
| 23 | 0.0 | | | | | | | |
| 24 | 0.0 | | | | | | | |
| 25 | 0.0 | | | | | | | |
| 26 | 0.0 | | | | | | | |
| 27 | 0.0 | | | | | | | |
| 28 | 0.0 | | | | | | | |
| 29 | 0.0 | | | | | | | |
| 30 | 0.0 | | | | | | | |
| 31 | 0.0 | | | | | | | |
| 32 | 0.0 | | | | | | | |
| 33 | 0.0 | | | | | | | |
| 34 | 0.0 | | | | | | | |
| 35 | 0.0 | | | | | | | |
| 36 | 0.0 | | | | | | | |
| 37 | 0.0 | | | | | | | |
| 38 | 0.0 | | | | | | | |
| 39 | 0.0 | | | | | | | |
| 40 | 0.0 | | | | | | | |
| 41 | 0.0 | | | | | | | |
| 42 | 0.0 | | | | | | | |
| 43 | 0.0 | | | | | | | |
| 44 | 0.0 | | | | | | | |
| 45 | 0.0 | | | | | | | |
| 46 | 0.0 | | | | | | | |
| 47 | 0.0 | | | | | | | |
| 48 | 0.0 | | | | | | | |
| 49 | 0.0 | | | | | | | |
| 50 | 0.0 | | | | | | | |
| 51 | 0.0 | | | | | | | |
| 52 | 0.0 | | | | | | | |
| 53 | 0.0 | | | | | | | |
| 54 | 0.0 | | | | | | | |
| 55 | 0.0 | | | | | | | |
| 56 | 0.0 | | | | | | | |
| 57 | 0.0 | | | | | | | |
| 58 | 0.0 | | | | | | | |
| 59 | 0.0 | | | | | | | |
| 60 | 0.0 | | | | | | | |
| 61 | 0.0 | | | | | | | |
| 62 | 0.0 | | | | | | | |
| 63 | 0.0 | | | | | | | |
| 64 | 0.0 | | | | | | | |
| 65 | 0.0 | | | | | | | |
| 66 | 0.0 | | | | | | | |
| 67 | 0.0 | | | | | | | |
| 68 | 0.0 | | | | | | | |
| 69 | 0.0 | | | | | | | |
| 70 | 0.0 | | | | | | | |
| 71 | 0.0 | | | | | | | |
| 72 | 0.0 | | | | | | | |
| 73 | 0.0 | | | | | | | |
| 74 | 0.0 | | | | | | | |
| 75 | 0.0 | | | | | | | |
| 76 | 0.0 | | | | | | | |
| 77 | 0.0 | | | | | | | |
| 78 | 0.0 | | | | | | | |
| 79 | 0.0 | | | | | | | |
| 80 | 0.0 | | | | | | | |
| 81 | 0.0 | | | | | | | |
| 82 | 0.0 | | | | | | | |
| 83 | 0.0 | | | | | | | |
| 84 | 0.0 | | | | | | | |
| 85 | 0.0 | | | | | | | |
| 86 | 0.0 | | | | | | | |
| 87 | 0.0 | | | | | | | |
| 88 | 0.0 | | | | | | | |
| 89 | 0.0 | | | | | | | |
| 90 | 0.0 | | | | | | | |
| 91 | 0.0 | | | | | | | |
| 92 | 0.0 | | | | | | | |
| 93 | 0.0 | | | | | | | |
| 94 | 0.0 | | | | | | | |
| 95 | 0.0 | | | | | | | |
| 96 | 0.0 | | | | | | | |
| 97 | 0.0 | | | | | | | |
| 98 | 0.0 | | | | | | | |
| 99 | 0.0 | | | | | | | |
| 100 | 0.0 | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | COUNTY: 62 ALL IN BASIN | | | | | | | | | |
|---------------------------------------|------------------------------------|-------------------------------------|--|-------------------------------|-------------------------------|-----------------------------|---|------------------------------------|---|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | POTENTIAL GROSS EROSION (TONS/ACRE) | REDUCE SOIL LOSS TO T PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. BRUSH LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | | |
| | | | | | | | | | | | |
| CROPLAND 1 | 78436.9 | 42331.5 | 74692.9 | 83634.3 | 76904.8 | 11264.3 | 34179.2 | 3765.6 | 8124.8 | | |
| | 8.0 | 4.3 | 7.6 | 8.6 | 7.9 | 1.2 | 3.3 | | 9.8 | | |
| CROPLAND 2 | 209762.2 | 161622.5 | 199529.1 | 224464.0 | 207231.1 | 30450.3 | 91968.5 | 56211.5 | 27843.8 | | |
| | 3.7 | 2.9 | 3.5 | 4.0 | 3.7 | .5 | 1.5 | | 4.7 | | |
| CROPLAND 3 | 15037.1 | 15030.9 | 14302.4 | 10102.5 | 14072.6 | 15037.1 | 15037.1 | 9271.4 | 9.9 | | |
| | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.6 | | 3.6 | | |
| CROPLAND 4 | 8679.4 | 8679.4 | 8278.6 | 9210.3 | 8430.8 | 3739.9 | 3739.9 | 9965.0 | 0.0 | | |
| | 1.0 | 1.0 | .9 | 1.0 | .9 | .4 | .4 | | 0.0 | | |
| CROPLAND 5 | 3311.7 | 3311.7 | 3152.8 | 3509.1 | 3222.6 | 3311.7 | 3311.7 | 3528.7 | 0.0 | | |
| | .9 | .9 | .9 | 1.0 | .9 | .9 | .9 | | 0.0 | | |
| CROPLAND 8 | 148.6 | 140.6 | 133.5 | 151.3 | 140.6 | 62.3 | 62.3 | 138.4 | 0.0 | | |
| | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .5 | .5 | | 0.0 | | |
| CROPLAND 10 | 6696.1 | 187.8 | 6359.7 | 7197.2 | 6679.9 | 985.5 | 2961.2 | 59.3 | 59.3 | | |
| | 112.9 | 3.2 | 107.2 | 121.4 | 112.6 | 16.6 | 43.9 | | 112.9 | | |
| CROPLAND | 322062.0 | 231304.4 | 306449.0 | 344258.7 | 317542.4 | 64851.1 | 151259.3 | 87339.9 | | | |
| | 3.7 | 2.6 | 3.5 | 3.9 | 3.6 | .7 | 1.7 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 1107.0 (ACRES) | | | | | | | |
| | 0.0 | 0.0 (ACRES) | | | | | | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | | | | | | | | | |
| PASTURE AND PASTURE | 82.5 | 82.5 (TONS) | OTHER LAND | 6484.3 (ACRES) | | | | | | | |
| | 919.2 | 919.2 (ACRES) | JSE AREA | | | | | | | | |
| | .09 | .09 (TONS/ACRE) | | | | | | | | | |
| WOODLAND | 955.8 | 955.8 (TONS) | MISSING DATA | 1866.1 (ACRES) | | | | | | | |
| | 11317.4 | 11317.4 (ACRES) | | | | | | | | | |
| | .04 | .08 (TONS/ACRE) | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 329125.5 | 236675.4 | 313221.3 | 351746.3 | 324521.6 | 67118.1 | 155137.3 | 102344.5 | | | |
| | 3.2 | 2.3 | 3.1 | 3.4 | 3.2 | .7 | 1.3 | | | | |
| PERCENT REDUCTION: | 0.0 | 28.1 | 4.8 | -6.9 | 1.4 | 79.6 | 92.9 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK AT RT. 231 COUNTY: 02 CRAWFORD, OHIO

| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | POT. LOSS TO T. PLUGH AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CRP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CRIPSEL PLOW AREA (TONS/ACRE) | SOIL MGMT. 300JP LAND (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) |
|---------------------------------------|------------------------------------|---|---|------------------------------|---------------------------------------|--|-------------------------------|---------------------------------------|
| CROPLAND 1 S46 | 43093.4 8.6 | 24809.3 5.0 | 41114.1 8.2 | 41836.5 8.4 | 6104.9 1.2 | 18673.3 3.7 | 4991.5 | 9991.5 |
| CROPLAND 2 S45 | 66458.8 4.0 | 47564.3 2.8 | 63412.4 3.8 | 64520.4 3.8 | 9415.0 .6 | 24798.9 1.7 | 15403.1 | 12147.7 |
| CROPLAND 3 S46 | 5496.8 1.7 | 5406.8 1.7 | 5244.3 1.6 | 5336.5 1.6 | 5406.8 1.7 | 5496.8 1.7 | 3261.5 | 0.0 |
| CROPLAND 4 S45 | 5685.9 .9 | 5685.9 .9 | 5425.3 .9 | 5520.1 .9 | 2463.9 .4 | 2463.3 .4 | 5355.3 | 0.0 |
| CROPLAND 5 S46 | 748.5 .9 | 748.5 .9 | 714.2 .9 | 726.7 .9 | 748.5 .9 | 748.5 .9 | 190.7 | 0.0 |
| CROPLAND 10 S45 | 554.5 56.0 | 39.5 4.0 | 529.1 53.4 | 538.3 54.4 | 78.6 7.9 | 248.3 24.3 | 9.3 | 9.9 |
| CROPLAND 10 S45 | 122037.9 3.8 | 84344.3 2.6 | 116444.6 3.6 | 118478.5 3.7 | 24307.7 .8 | 56422.1 1.3 | 32312.5 | 0.0 |
| VINEYARDS AND ORCH. | 0.0 0.0 0.00 | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 266.9 (ACRES) | | | | |
| GRASSLAND AND PASTURE | 17.1 316.3 .05 | 17.1 (TONS) 316.3 (ACRES) .05 (TONS/ACRE) | 17.1 (TONS) 316.3 (ACRES) .05 (TONS/ACRE) | 1591.4 (ACRES) | | | | |
| WOODLAND | 220.7 3271.7 .07 | 220.7 (TONS) 3271.7 (ACRES) .07 (TONS/ACRE) | MISSING DATA | 553.5 (ACRES) | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 124166.2 3.4 | 85889.8 2.4 | 114486.4 3.3 | 120551.7 3.3 | 24925.8 .7 | 57535.3 1.3 | 36354.8 | 0.0 |
| PERCENT REDUCTION: | 0.0 | 30.4 | 4.6 | -6.2 | 2.9 | 79.9 | 53.7 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | AT WT. 231 | | COUNTY: US SENECA, OHIO | | | |
|---------------------------------------|--|-------------------------------|-------------------------------|---------------------------------------|---|----------------------------------|---------------------------------------|
| LAND USE | EXISTING POT. REDUCE SOIL LOSS TO TILLAGE ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GRUPLAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
| CROPLAND 1 | 36453.4 | 18188.8 | 34607.7 | 39222.6 | 36453.4 | 5179.3 | 3000.2 |
| SWG | 7.0 | 3.5 | 6.7 | 7.6 | 7.0 | 3.1 | 9.1 |
| CROPLAND 2 | 146996.4 | 112991.2 | 139553.6 | 158160.7 | 146996.4 | 38384.2 | 14636.2 |
| SWG | 3.8 | 2.9 | 3.6 | 4.1 | 3.8 | 1.7 | 5.3 |
| CROPLAND 3 | 9991.5 | 9991.5 | 9485.6 | 10750.3 | 9991.5 | 6316.8 | 0.0 |
| SWG | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.5 | 0.0 |
| CROPLAND 4 | 1111.0 | 1111.0 | 1054.8 | 1195.4 | 1111.0 | 1354.1 | 0.0 |
| SWG | .8 | .8 | .8 | .9 | .8 | .4 | 0.0 |
| CROPLAND 5 | 1308.8 | 1308.8 | 1318.4 | 1494.2 | 1308.8 | 1453.8 | 0.0 |
| SWG | 1.0 | 1.0 | .9 | 1.0 | 1.0 | 1.0 | 0.0 |
| CROPLAND 6 | 150.7 | 150.7 | 143.0 | 162.1 | 150.7 | 140.3 | 0.0 |
| SWG | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .4 | 0.0 |
| CROPLAND 7 | 7817.0 | 217.5 | 7421.2 | 8410.7 | 7817.0 | 69.2 | 69.2 |
| SWG | 113.0 | 3.1 | 107.2 | 121.5 | 113.0 | 58.0 | 113.0 |
| CROPLAND 8 | 20390.8 | 143959.5 | 193564.3 | 219395.4 | 20390.8 | 53424.1 | 113.0 |
| SWG | 3.8 | 2.7 | 3.6 | 4.1 | 3.8 | 1.3 | 5.3 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 721.5 (ACRES) | | |
| GRASSLAND AND PASTURE | 72.3 | 72.3 (TONS) | OTHER LAND USE AREA | 3321.1 (ACRES) | 3321.1 (ACRES) | | |
| WOODLAND | 803.3 | 803.3 (TONS) | MISSING DATA | 1502.4 (ACRES) | | | |
| SWG | 4223.6 | 6223.6 (ACRES) | | | | | |
| SWG | .10 | .10 (TONS/ACRE) | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | |
| 209722.1 | 146327.3 | 199144.7 | 225562.1 | 209722.1 | 63912.3 | | |
| 3.3 | 2.3 | 3.1 | 5.5 | 3.3 | 1.5 | | |
| PERCENT REDUCTION: | | | | | | | |
| 0.0 | 29.3 | 5.0 | -7.6 | 0.0 | 52.4 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | AT WT. 231 | | COUNTY: 04 WUPON, OHIO | | | | | | | | | |
|--|--|--|--|--|--|--|---|---|--|--|--|--|--|
| LAND USE | EXISTING POT-REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE) | EXISTING GROSS EROSION (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOD AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) (TONS/ACRE) | | | | | |
| 1- CROPLAND S46 | 6211.7 4.8 | 3162.9 5.0 | 5917.1 9.6 | 6506.3 10.3 | 5941.6 9.4 | 859.3 1.4 | 632.5 | 632.6 9.8 | | | | | |
| 2- CROPLAND S46 | 11387.3 3.3 | 10348.5 3.0 | 19847.2 3.1 | 11927.4 3.5 | 10892.2 3.2 | 1575.3 .5 | 3449.5 | 3449.6 3.3 | | | | | |
| 3- CROPLAND S46 | 95.1 2.4 | 88.9 2.2 | 90.5 2.3 | 99.6 2.5 | 90.9 2.3 | 95.1 2.4 | 39.3 | 9.9 3.6 | | | | | |
| 4- CROPLAND S46 | 1746.0 1.4 | 1746.0 1.4 | 1663.2 1.3 | 1828.8 1.5 | 1670.1 1.3 | 731.5 .6 | 1255.3 | 0.0 0.0 | | | | | |
| 5- CROPLAND S46 | 1540.5 .9 | 1540.5 .9 | 1467.5 .9 | 1613.6 1.0 | 1473.5 .9 | 1540.5 .9 | 1590.2 | 0.0 0.0 | | | | | |
| 6- CROPLAND S46 | 20980.6 3.0 | 16906.8 2.4 | 19955.5 2.9 | 21975.7 3.1 | 20868.3 2.8 | 4801.7 .7 | 7067.2 | 7067.2 | | | | | |
| 7- LIVESTOCK AND ORCH. | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 197.7 (ACRES) | | | | | | | |
| 8- GRASSLAND AND PASTURE | 2.5 79.1 | 2.5 79.1 | 2.5 79.1 | 2.5 79.1 | 2.5 79.1 | 1779.2 (ACRES) | | | | | | | |
| 9- WOODLAND | 52.6 800.6 | 52.6 800.6 | 52.6 800.6 | 52.6 800.6 | 52.6 800.6 | 49.4 (ACRES) | | | | | | | |
| 10- SUMMARY TOTAL POTENTIAL GROSS EROSION | 21166.5 2.6 | 17067.3 2.1 | 20165.2 2.5 | 22167.7 2.8 | 20248.5 2.5 | 4887.0 .6 | 7996.3 | 9856.6 1.2 | | | | | |
| PERCENT REDUCTION: | 0.0 | 19.4 | 4.7 | -8.7 | 4.3 | 76.9 | 53.4 | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| COUNTY: 11 JAWOCT, OHIO | | | | | | | | | | | | | | |
|-------------------------|-------------|--|---|--------------------------------------|--------------------------------------|--|--|------------------------------------|---------------------------------------|----------------------|--|--|--|--|
| AT RT. 231 | | | | | | | | | | | | | | |
| BASIN: MONEY CREEK | LAND USE | EXISTING POT-REDUCE SOIL SPMNG | | FALL PLOWING ONLY (TONS) (TONS/ACRE) | WINTER COVER CROP (TONS) (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS) (TONS/ACRE) | REDUCED TILLAGE: CHISEL P-3W AREA (TONS) (TONS/ACRE) | SOIL MGMT. STORP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | EXISTING (TONS/ACRE) | | | | |
| | | LOSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS/ACRE) | LOSS TO T PLOWING ONLY (TONS) (TONS/ACRE) | | | | | | | | | | | |
| | 1 CROPLAND | 287.1 | 148.3 | 278.3 | 307.0 | 280.5 | 38.6 | 113.3 | 39.5 | 39.5 | | | | |
| | 2 CROPLAND | 17.3 | 3.8 | 7.0 | 7.8 | 7.1 | 1.0 | 3.0 | 7.3 | 7.3 | | | | |
| | 3 CROPLAND | 1841.6 | 1492.2 | 1784.9 | 1964.1 | 1799.1 | 247.9 | 765.3 | 543.6 | 555.8 | | | | |
| | 4 CROPLAND | 3.4 | 2.7 | 3.3 | 3.6 | 3.3 | .5 | 1.4 | 4.0 | 4.0 | | | | |
| | 5 CROPLAND | 294.4 | 294.4 | 285.3 | 314.7 | 287.8 | 122.3 | 122.3 | 197.7 | 0.0 | | | | |
| | 6 CROPLAND | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 | .6 | .5 | 0.0 | 0.0 | | | | |
| | 7 CROPLAND | 13.1 | 13.1 | 12.6 | 14.0 | 12.7 | 13.1 | 13.1 | 9.9 | 0.0 | | | | |
| | 8 CROPLAND | 1.3 | 1.3 | 1.3 | 1.4 | 1.3 | 1.3 | 1.3 | 0.0 | 0.0 | | | | |
| | 9 CROPLAND | 2436.2 | 1948.0 | 2361.1 | 2604.8 | 2379.9 | 421.9 | 1019.7 | 798.7 | 1.5 | | | | |
| | 10 CROPLAND | 3.1 | 2.5 | 3.0 | 3.3 | 3.0 | .5 | 1.5 | 1.5 | 1.5 | | | | |
| | 11 CROPLAND | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | |
| | 12 CROPLAND | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | |
| | 13 CROPLAND | 0.0 | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | | | | |
| | 14 CROPLAND | 6.7 | 6.7 (TONS) | 6.7 (TONS) | 6.7 (TONS) | 49.4 (ACRES) | 49.4 (ACRES) | 49.4 (ACRES) | 49.4 (ACRES) | 49.4 (ACRES) | | | | |
| | 15 CROPLAND | 79.1 | 79.1 (ACRES) | 79.1 (ACRES) | 79.1 (ACRES) | 49.4 (ACRES) | 49.4 (ACRES) | 49.4 (ACRES) | 49.4 (ACRES) | 49.4 (ACRES) | | | | |
| | 16 CROPLAND | .08 | .08 (TONS/ACRE) | .08 (TONS/ACRE) | .08 (TONS/ACRE) | .08 (TONS/ACRE) | .08 (TONS/ACRE) | .08 (TONS/ACRE) | .08 (TONS/ACRE) | .08 (TONS/ACRE) | | | | |
| | 17 CROPLAND | .3 | .3 (TONS) | .3 (TONS) | .3 (TONS) | 29.7 (ACRES) | 29.7 (ACRES) | 29.7 (ACRES) | 29.7 (ACRES) | 29.7 (ACRES) | | | | |
| | 18 CROPLAND | 9.9 | 9.9 (ACRES) | 9.9 (ACRES) | 9.9 (ACRES) | 29.7 (ACRES) | 29.7 (ACRES) | 29.7 (ACRES) | 29.7 (ACRES) | 29.7 (ACRES) | | | | |
| | 19 CROPLAND | .03 | .03 (TONS/ACRE) | .03 (TONS/ACRE) | .03 (TONS/ACRE) | .03 (TONS/ACRE) | .03 (TONS/ACRE) | .03 (TONS/ACRE) | .03 (TONS/ACRE) | .03 (TONS/ACRE) | | | | |
| | 20 CROPLAND | 2525.7 | 2021.0 | 2448.1 | 2706.0 | 2467.5 | 443.4 | 1061.4 | 989.4 | 989.4 | | | | |
| | 21 CROPLAND | 2.8 | 2.2 | 2.7 | 3.0 | 2.7 | .5 | 1.2 | 1.2 | 1.2 | | | | |
| | 22 CROPLAND | 0.0 | 20.0 | 3.1 | -6.9 | 2.3 | 82.4 | 59.3 | 59.3 | 59.3 | | | | |
| | 23 CROPLAND | PERCENT REDUCTION: | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | AT ST. 231 | | COUNTY: 62 ALL IN RASIN | | | |
|--------------------|--|---------------------------------------|---------------------------------|---------------------------|---|---|---|
| LAND USE | EXISTING POT. REDUCE LOSS TO PLOWING AND EXISTING ONLY (TONS) | SOIL SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOU AREA (TONS) | SOIL MGMT. 3200P LAND AREA (ACRES) |
| 1 | 46045.5 7.9 | 46229.4 4.3 | 81921.2 7.6 | 84511.5 7.8 | 12386.3 1.1 | 37545.3 3.5 | 13043.0 4.9 |
| 2 | 226684.1 3.8 | 172416.0 2.9 | 215598.3 3.6 | 224208.1 3.8 | 32946.6 .6 | 99459.7 1.7 | 59700.6 4.8 |
| 3 | 15583.3 1.6 | 15577.2 1.6 | 14821.0 1.5 | 15418.9 1.5 | 15583.3 1.6 | 15583.3 1.6 | 9517.3 3.6 |
| 4 | 8837.3 1.0 | 8837.3 1.0 | 8428.6 .9 | 8588.8 .9 | 3909.9 .4 | 3409.9 .4 | 7162.7 0.0 |
| 5 | 3690.9 .9 | 3690.9 .9 | 3312.4 .9 | 3621.7 .9 | 3690.9 .9 | 3690.9 .9 | 3943.9 0.0 |
| 6 | 150.7 1.0 | 150.7 1.0 | 143.0 1.0 | 150.7 1.0 | 66.7 .4 | 66.7 .4 | 148.3 0.0 |
| 7 | 8371.5 105.8 | 257.0 3.2 | 7950.3 100.5 | 8355.3 105.6 | 1233.0 15.6 | 3703.5 46.9 | 79.1 105.8 |
| 8 | 349363.3 3.7 | 247158.5 2.4 | 332375.2 3.4 | 344835.4 3.7 | 67716.7 .7 | 163959.3 1.3 | 93698.9 1.3 |
| 9 | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 1186.1 (ACRES) | | | |
| 10 | 98.6 1136.7 | 98.6 (TONS) 1136.7 (ACRES) | 2788.0 (TONS) 2788.0 (ACRES) | 6701.0 (ACRES) | | | |
| 11 | 1076.9 12305.8 | 1076.9 (TONS) 12305.8 (ACRES) | 2135.0 (ACRES) | | | | |
| 12 | 357537.3 3.3 | 253292.0 2.3 | 340210.0 3.1 | 352019.0 3.2 | 72307.6 .7 | 168330.2 1.5 | 109072.3 1.5 |
| 13 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 14 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 15 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 16 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 17 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 18 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 19 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 20 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 21 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 22 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 23 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 24 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 25 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 26 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 27 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 28 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 29 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 30 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 31 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 32 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 33 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 34 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 35 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 36 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 37 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 38 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 39 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 40 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 41 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 42 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 43 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 44 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 45 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 46 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 47 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 48 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 49 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 50 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 51 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 52 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 53 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 54 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 55 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 56 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 57 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 58 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 59 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 60 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 61 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 62 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 63 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 64 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 65 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 66 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 67 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 68 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 69 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 70 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 71 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 72 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 73 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 74 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 75 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 76 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 77 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 78 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 79 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 80 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 81 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 82 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 83 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 84 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 85 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 86 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 87 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 88 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 89 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 90 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 91 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 92 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 93 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 94 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 95 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 96 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 97 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 98 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 99 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |
| 100 | 0.0 | 24.2 | 4.8 | -6.9 | 1.3 | 79.8 | 52.9 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| COUNTY: 02 CRAWFORD, OHIO | | | | | | | | | |
|---------------------------------------|------------------------------------|---|-------------------------------|-------------------------------|---------------------------------------|---|-------------------------------|---|--|
| MELMORE, OH | | | | | | | | | |
| BASIN: MONEY CREEK | | | | | | | | | |
| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | POT-REDUCE SOIL LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. 230UP LAND (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | |
| 1 CROPLAND | 36052.1 | 21646.4 | 34399.7 | 38305.3 | 5107.4 | 15622.5 | 4358.3 | 4358.9 | |
| 546 | 8.3 | 5.0 | 7.9 | 8.8 | 6.0 | 3.5 | 8.3 | 8.3 | |
| 2 CROPLAND | 61535.4 | 44199.5 | 58715.0 | 65381.4 | 8717.5 | 26665.3 | 15557.7 | 11169.1 | |
| 546 | 4.0 | 2.8 | 3.8 | 4.2 | 3.8 | 1.7 | 4.6 | 4.6 | |
| 3 CROPLAND | 5117.5 | 4882.9 | 5437.3 | 4968.2 | 5117.5 | 5117.5 | 3024.5 | 0.0 | |
| 543 | 1.7 | 1.5 | 1.8 | 1.8 | 1.8 | 1.7 | 1.7 | 0.0 | |
| 4 CROPLAND | 5659.4 | 5400.0 | 6013.1 | 5494.3 | 2452.4 | 2452.4 | 6316.0 | 0.0 | |
| 546 | .9 | .9 | 1.0 | .9 | .9 | .4 | .4 | 0.0 | |
| 5 CROPLAND | 639.4 | 610.1 | 679.4 | 620.7 | 639.4 | 639.4 | 691.3 | 0.0 | |
| 546 | .9 | .9 | 1.0 | .9 | .9 | .3 | .3 | 0.0 | |
| 10 CROPLAND | 554.5 | 39.5 | 529.1 | 538.3 | 78.6 | 248.3 | 9.3 | 9.9 | |
| 546 | 56.0 | 4.0 | 53.4 | 54.4 | 7.9 | 24.3 | 24.3 | 56.0 | |
| 20 CROPLAND | 109558.3 | 77301.7 | 104536.8 | 106362.6 | 22112.8 | 50737.5 | 29959.0 | | |
| 546 | 3.7 | 2.6 | 3.5 | 3.6 | .7 | 1.7 | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | WATER AREA ONLY | 257.0 (ACRES) | | | | | |
| 546 | 0.0 | 0.0 (ACRES) | 0.00 (TONS/ACRE) | | | | | | |
| 3 PASTURE AND PASTURE | 14.3 | 14.3 (TONS) | OTHER LAND USE AREA | 1561.7 (ACRES) | | | | | |
| 546 | 296.5 | 296.5 (ACRES) | 0.05 (TONS/ACRE) | | | | | | |
| 20 CROPLAND | 209.3 | 209.3 (TONS) | MISSING DATA | 454.7 (ACRES) | | | | | |
| 546 | 3054.2 | 3054.2 (ACRES) | | | | | | | |
| 546 | .07 | .07 (TONS/ACRE) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | |
| 111280.5 | 78583.6 | 106190.5 | 118221.4 | 108041.2 | 22541.3 | 51655.3 | 33764.4 | | |
| 3.5 | 2.3 | 3.1 | 3.5 | 3.2 | .7 | 1.5 | | | |
| PERCENT REDUCTION: | | | | | | | | | |
| 0.0 | 29.4 | 4.6 | -6.2 | 2.9 | 79.7 | 53.5 | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
: LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | COUNTY: 04 HURON, OHIO | | | | | | | | | |
|---------------------------------------|-------------------------------|---|---------------------------------|--------------------------|--------------------------|--------------------------|--|------------------------------------|---------------------------------------|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS) | POT. REDUCE LOSS TO T. AND EXISTING ONLY (TONS) | SOIL SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | VARIATION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL WASH. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | | |
| | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | | |
| 210PLAND 1 | 6211.7 | 3162.9 | 5917.1 | 6506.3 | 5941.6 | 959.3 | 2502.3 | 632.6 | 632.6 | | |
| SW6 | 9.0 | 5.0 | 9.4 | 10.3 | 9.4 | 1.4 | 4.1 | 9.0 | 9.0 | | |
| 210PLAND 2 | 11387.3 | 10368.5 | 10847.2 | 11927.4 | 10692.2 | 1575.3 | 4771.0 | 3449.6 | 3449.6 | | |
| SW6 | 3.3 | 3.0 | 3.1 | 3.5 | 3.2 | .5 | 1.4 | 3.3 | 3.3 | | |
| 210PLAND 3 | 95.1 | 88.9 | 90.5 | 99.5 | 98.9 | 95.1 | 93.1 | 39.3 | 39.3 | | |
| SW6 | 2.4 | 2.2 | 2.3 | 2.5 | 2.5 | 2.4 | 2.4 | 3.6 | 3.6 | | |
| 210PLAND 4 | 1746.0 | 1746.0 | 1663.2 | 1828.8 | 1670.1 | 731.5 | 731.5 | 1255.3 | 1255.3 | | |
| SW6 | 1.4 | 1.4 | 1.3 | 1.5 | 1.3 | .6 | .5 | 0.0 | 0.0 | | |
| 210PLAND 5 | 1540.5 | 1540.5 | 1467.5 | 1613.5 | 1473.5 | 1540.5 | 1540.5 | 1590.2 | 1590.2 | | |
| SW6 | .9 | .9 | .9 | 1.0 | .9 | .9 | .9 | 0.0 | 0.0 | | |
| CROPLAND | 20988.6 | 16906.8 | 19985.5 | 21975.7 | 20068.3 | 4801.7 | 9740.6 | 7067.2 | | | |
| | 3.0 | 2.4 | 2.8 | 3.1 | 2.8 | .7 | 1.4 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS/ACRE) | 197.7 (ACRES) | | | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | | | | | | | | | |
| GRASSLAND AND PASTURE | 2.5 | 2.5 (TONS) | OTHER LAND | 1779.2 (ACRES) | | | | | | | |
| | 79.1 | 79.1 (ACRES) | USE AREA | | | | | | | | |
| | .03 | .03 (TONS/ACRE) | | | | | | | | | |
| WOODLAND | 52.6 | 52.6 (TONS) | MISSING DATA | 49.4 (ACRES) | | | | | | | |
| | 800.6 | 800.6 (ACRES) | | | | | | | | | |
| | .07 | .07 (TONS/ACRE) | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 21166.5 | 17067.3 | 20165.2 | 22167.7 | 20248.5 | 4887.0 | 9856.6 | 7996.3 | | | |
| | 2.6 | 2.1 | 2.5 | 2.4 | 2.5 | .5 | 1.2 | | | | |
| PERCENT REDUCTION: | 0.0 | 19.4 | 4.7 | -4.7 | 4.3 | 16.9 | 53.4 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | COUNTY: 62 ALL IN BASIN | | | | | | | | | |
|---------------------------------------|--|--|-------------------------------|------------------------------|-----------------------------|---|------------------------------------|---|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | REDUCE SOIL LOSS TO TILLAGE ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CRP (TONS/ACRE) | MAXIMUM TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | | | |
| CROPLAND 1 | 59524.1 | 34613.6 | 56703.1 | 58202.5 | 8515.7 | 25972.1 | 7917.2 | 6573.0 | | | |
| SW6 | 7.5 | 6.4 | 7.2 | 8.0 | 7.4 | 3.3 | | 8.5 | | | |
| CROPLAND 2 | 182817.6 | 143642.1 | 173893.7 | 180526.8 | 26521.5 | 80122.7 | 49495.3 | 23811.0 | | | |
| SW6 | 3.7 | 2.9 | 3.5 | 3.6 | .5 | 1.5 | | 4.6 | | | |
| CROPLAND 3 | 13939.8 | 13933.7 | 13258.9 | 13746.4 | 13939.8 | 13939.8 | 8579.5 | 9.9 | | | |
| SW6 | 1.6 | 1.6 | 1.5 | 1.5 | 1.6 | 1.5 | | 3.6 | | | |
| CROPLAND 4 | 8222.4 | 8222.4 | 7838.8 | 7981.4 | 3545.9 | 3545.9 | 4559.7 | 0.0 | | | |
| SW6 | 1.0 | 1.0 | .9 | 1.0 | .9 | .6 | | 0.0 | | | |
| CROPLAND 5 | 2962.7 | 2962.7 | 2820.7 | 2877.1 | 2962.7 | 2962.7 | 3153.1 | 0.0 | | | |
| SW6 | .9 | .9 | .9 | 1.0 | .9 | .7 | | 0.0 | | | |
| CROPLAND 8 | 140.6 | 140.6 | 133.5 | 140.6 | 62.3 | 62.3 | 138.4 | 0.0 | | | |
| SW6 | 1.0 | 1.0 | 1.0 | 1.0 | .5 | .5 | | 0.9 | | | |
| CROPLAND 10 | 4239.5 | 128.5 | 4027.5 | 4223.3 | 622.7 | 1872.9 | 39.5 | 39.5 | | | |
| SW6 | 107.3 | 3.3 | 102.0 | 115.3 | 15.8 | 47.6 | | 107.3 | | | |
| CROPLAND 271846.7 | 203643.6 | 258676.2 | 290421.2 | 267738.1 | 56170.6 | 128378.4 | 74282.9 | | | | |
| SW6 | 3.5 | 2.6 | 3.3 | 3.7 | 3.4 | 1.5 | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 929.1 (ACRES) | | | | | | | |
| SW6 | 0.0 | 0.0 (ACRES) | AREA ONLY | | | | | | | | |
| SW6 | 0.0 | 0.0 (TONS/ACRE) | | | | | | | | | |
| GRASSLAND AND PASTURE | 39.6 | 39.6 (TONS) | OTHER LAND | 6009.6 (ACRES) | | | | | | | |
| SW6 | 721.5 | 721.5 (ACRES) | JSE AREA | | | | | | | | |
| SW6 | .05 | .05 (TONS/ACRE) | | | | | | | | | |
| WOODLAND | 699.5 | 699.5 (TONS) | MISSING DATA | 1502.4 (ACRES) | | | | | | | |
| SW6 | 10842.3 | 10842.3 (ACRES) | | | | | | | | | |
| SW6 | .07 | .07 (TONS/ACRE) | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 277184.9 | 207431.1 | 263792.2 | 296072.8 | 57869.9 | 131296.0 | 90549.1 | | | | |
| SW6 | 3.1 | 2.3 | 2.9 | 3.3 | 3.0 | 1.6 | | | | | |
| PERCENT REDUCTION: | 0.0 | 25.0 | 4.8 | -6.8 | 1.5 | 79.1 | 52.5 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: HONEY CREEK UPSTREAM FROM SILVER CR COUNTY: 02 CRAWFORD, OHIO

| LAND USE | EXISTING GROSS EROSION (TONS) | POT-REDUCE LOSS TO T AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW (TONS) | SOIL WENT. GROUP LAND (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) |
|---------------------------------------|-------------------------------|---|--------------------------|--------------------------|----------------------------------|-------------------------------------|-------------------------------|---|
| 1- CROPLAND 346 | 29461.5 | 18137.5 | 28111.2 | 31302.9 | 4173.7 | 12766.7 | 3557.2 | 3657.2 |
| | 8.1 | 5.0 | 7.7 | 8.6 | 1.1 | 3.5 | | 8.1 |
| 2- CROPLAND 346 | 42194.7 | 31915.9 | 40260.4 | 44831.9 | 5977.6 | 18289.0 | 11317.0 | 7709.7 |
| | 3.7 | 2.8 | 3.5 | 4.0 | .5 | 1.5 | | 4.3 |
| 3- CROPLAND 346 | 3994.0 | 3994.0 | 3810.9 | 4243.6 | 3977.5 | 3994.0 | 2322.8 | 0.0 |
| | 1.7 | 1.7 | 1.6 | 1.6 | 1.7 | 1.7 | | 0.0 |
| 4- CROPLAND 346 | 5425.8 | 5425.8 | 5177.1 | 5764.9 | 2351.2 | 2351.2 | 6059.0 | 0.0 |
| | .9 | .9 | .9 | 1.0 | .4 | .4 | | 0.0 |
| 5- CROPLAND 346 | 552.5 | 552.5 | 527.2 | 587.1 | 552.5 | 552.5 | 612.3 | 0.0 |
| | .9 | .9 | .9 | 1.0 | .9 | .9 | | 0.0 |
| 10- CROPLAND 346 | 554.5 | 39.5 | 529.1 | 589.2 | 536.3 | 248.3 | 9.9 | 9.9 |
| | 56.0 | 4.0 | 53.4 | 59.5 | 78.6 | 24.5 | | 56.0 |
| 1- VINEYARDS AND ORCH. | 82183.0 | 60065.2 | 78416.3 | 87319.6 | 17127.8 | 36169.1 | 23979.1 | |
| | 3.4 | 2.5 | 3.3 | 3.6 | .7 | 1.5 | | |
| | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 168.0 (ACRES) | | | | |
| | 0.0 | 0.0 (ACRES) | AREA ONLY | | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | | | | | | |
| GRASSLAND AND PASTURE | 13.4 | 13.4 (TONS) | OTHER LAND | 1304.7 (ACRES) | | | | |
| | 286.6 | 286.6 (ACRES) | USE AREA | | | | | |
| | .05 | .05 (TONS/ACRE) | | | | | | |
| WOODLAND | 160.0 | 160.0 (TONS) | MISSING DATA | 385.5 (ACRES) | | | | |
| | 2392.0 | 2392.0 (ACRES) | | | | | | |
| | .07 | .07 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 83547.4 | 61109.7 | 79726.2 | 88758.2 | 91115.6 | 38917.3 | 27043.2 | |
| | 3.1 | 2.3 | 2.9 | 3.3 | .6 | 1.4 | | |
| PERCENT REDUCTION: | 0.0 | 26.9 | 4.6 | -6.2 | 79.0 | 53.0 | | |

LAKE ERIE WASTE-WATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : TEST MANAGEMENT PRACTICE SCENARIOS

WATER: HONEY CREEK UPTURN FROM SILVER CR. COUNTY: JS SENECA, OHIO

| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | LOSS TO 1 PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM PRODUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WASH GROUP LAND (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
|---------------------------------------|------------------------------------|---|-------------------------------|-------------------------------|--|---|------------------------------|---------------------------------------|
| CROPLAND 1 | 10917.3 | 5255.4 | 11741.4 | 10917.3 | 1612.3 | 4936.9 | 1779.2 | 780.9 |
| SW | 6.1 | 3.0 | 5.9 | 6.5 | 6.1 | 2.7 | 10.2 | 10.2 |
| CROPLAND 2 | 43586.1 | 68129.3 | 79343.9 | 43586.1 | 12743.9 | 37031.4 | 23761.6 | 7462.6 |
| SW | 3.5 | 2.5 | 3.3 | 3.4 | 3.5 | 1.5 | 5.1 | 5.1 |
| CROPLAND 3 | 7344.6 | 7344.6 | 6722.4 | 7344.6 | 7344.6 | 7344.6 | 4645.5 | 0.0 |
| SW | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.5 | 0.0 | 0.0 |
| CROPLAND 4 | 708.2 | 708.2 | 672.4 | 708.2 | 313.8 | 313.8 | 899.9 | 0.0 |
| SW | 0.8 | 0.8 | 0.8 | 0.9 | 0.8 | 0.8 | 0.0 | 0.0 |
| CROPLAND 5 | 597.4 | 597.4 | 542.8 | 597.4 | 597.4 | 597.4 | 593.1 | 0.0 |
| SW | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| CROPLAND 6 | 100.4 | 100.4 | 95.4 | 100.4 | 44.5 | 44.5 | 99.9 | 0.0 |
| SW | 1.0 | 1.0 | 1.0 | 1.0 | 0.5 | 0.5 | 0.0 | 0.0 |
| CROPLAND 7 | 3685.0 | 3685.0 | 3498.4 | 3685.0 | 544.2 | 1632.5 | 29.7 | 29.7 |
| SW | 124.1 | 3.0 | 117.8 | 124.1 | 18.3 | 55.0 | 124.1 | 124.1 |
| CROPLAND 8 | 106939.0 | 82224.7 | 101524.4 | 106939.0 | 22400.7 | 51901.3 | 31767.3 | 106939.0 |
| SW | 3.4 | 2.6 | 3.2 | 3.4 | 0.7 | 1.6 | 1.6 | 1.6 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 365.7 (ACRES) | | | |
| SW | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| GRASSLAND AND PASTURE | 19.0 | 19.0 (TONS) | 19.0 (ACRES) | 2115.2 (ACRES) | | | | |
| SW | 306.4 | 306.4 (ACRES) | 306.4 (ACRES) | | | | | |
| WOODLAND | 327.9 | 327.9 (TONS) | 327.9 (ACRES) | 830.3 (ACRES) | | | | |
| SW | 4566.5 | 4566.5 (ACRES) | 4566.5 (ACRES) | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 109717.1 | 104179.4 | 118023.1 | 109717.1 | 23672.1 | 53330.1 | 37471.1 | 109717.1 |
| PERCENT REDUCTION: | 0.0 | 23.0 | 5.0 | 7.6 | 0.0 | 51.0 | 51.0 | 0.0 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

34 BASIN: HONEY CREEK UPSTREAM FROM SILVER CREEK COUNTY: 34 HURON, OHIO

| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | REDUCE SOIL LOSS TO 75% OF EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM TILLAGE REDUCTION (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WASH: SEDIMENT AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
|---------------------------------------|---|--|-------------------------------|-------------------------------|---------------------------------------|---|----------------------------------|---------------------------------------|
| 1 CROPLAND 346 | 6211.7 9.8 | 3162.9 5.0 | 5917.1 9.4 | 6506.1 10.3 | 5941.5 9.4 | 2602.5 4.1 | 632.6 9.8 | |
| 2 CROPLAND 346 | 11387.3 3.3 | 10368.5 3.0 | 16847.2 3.1 | 11927.4 3.5 | 13892.2 3.2 | 4771.0 1.4 | 3449.6 3.3 | |
| 3 CROPLAND 346 | 95.1 2.4 | 88.9 2.2 | 90.5 2.3 | 99.5 2.5 | 90.9 2.3 | 95.1 2.4 | 9.9 3.6 | |
| 4 CROPLAND 346 | 1746.0 1.4 | 1746.0 1.4 | 1665.2 1.3 | 1828.8 1.5 | 1670.1 1.3 | 731.5 1.5 | 1255.3 0.0 | |
| 5 CROPLAND 346 | 1540.5 0.9 | 1540.5 0.9 | 1467.5 0.9 | 1613.6 1.0 | 1473.5 0.9 | 1540.5 0.9 | 1590.2 0.0 | |
| 6 CROPLAND 346 | 20980.6 3.0 | 16906.8 2.4 | 19965.5 2.8 | 21975.7 3.1 | 20068.3 2.8 | 9740.5 1.4 | 7067.2 1.4 | |
| VINEYARDS AND ORCH. | 0.0 0.0 0.00 | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 0.0 0.0 0.00 | 0.0 0.0 0.00 | 197.7 (ACRES) | | | |
| GRASSLAND AND PASTURE | 2.5 79.1 0.03 | 2.5 (TONS) 79.1 (ACRES) 0.03 (TONS/ACRE) | 2.5 79.1 0.03 | 2.5 79.1 0.03 | 1779.2 (ACRES) | | | |
| WOODLAND | 52.6 800.6 0.07 | 52.6 (TONS) 800.6 (ACRES) 0.07 (TONS/ACRE) | 52.6 800.6 0.07 | 52.6 800.6 0.07 | 49.4 (ACRES) | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 21166.5 2.6 | 17067.3 2.1 | 20165.2 2.5 | 22167.7 2.4 | 20248.5 2.5 | 9955.5 1.2 | 1395.3 0.0 | |
| PERCENT REDUCTIONS: | 0.0 | 19.4 | 4.7 | -4.7 | 4.3 | 76.9 | 53.4 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | | | | | | | | | UPSTREAM FROM SILVER CR COUNTY: 62 ALL IN BASIN | | | | | | | | | |
|---------------------------------------|-------------------------------|--|---------------------------------|--------------------------|--------------------------|----------------------------------|--|---------------------------------|---|---|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS) | POT. LOSS TO T. AND EXISTING ONLY (TONS) | SOIL SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL P. 3/4 AREA (TONS) | SOIL MGMT. 3/4 3/4 AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | | | | | | | | | | |
| 1- CROPLAND | 46590.5 | 26556.2 | 44392.4 | 49555.5 | 45461.1 | 6545.3 | 20205.3 | 6068.3 | 5070.6 | | | | | | | | | | |
| SYG 1 | 7.7 | 4.4 | 7.3 | 8.2 | 7.5 | 1.1 | 3.3 | | 9.6 | | | | | | | | | | |
| 2- CROPLAND | 137213.1 | 110459.0 | 130505.5 | 146741.4 | 135486.4 | 19902.9 | 60105.3 | 39598.4 | 18621.8 | | | | | | | | | | |
| SYG 2 | 3.6 | 2.9 | 3.4 | 3.8 | 3.5 | .5 | 1.5 | | 4.4 | | | | | | | | | | |
| 3- CROPLAND | 11433.7 | 11427.3 | 10874.2 | 12245.7 | 11313.1 | 11433.7 | 11433.7 | 7007.3 | 9.9 | | | | | | | | | | |
| SYG 3 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.6 | | 3.6 | | | | | | | | | | |
| 4- CROPLAND | 7480.0 | 7480.0 | 7512.4 | 8355.7 | 7645.8 | 3396.5 | 3396.5 | 9174.2 | 0.0 | | | | | | | | | | |
| SYG 4 | 1.0 | 1.0 | .9 | 1.0 | .9 | .4 | .4 | | 0.0 | | | | | | | | | | |
| 5- CROPLAND | 2690.5 | 2690.5 | 2461.8 | 2843.4 | 2607.4 | 2690.5 | 2690.5 | 2995.1 | 0.0 | | | | | | | | | | |
| SYG 5 | .9 | .9 | .9 | 1.0 | .9 | .9 | .9 | | 0.0 | | | | | | | | | | |
| 6- CROPLAND | 100.4 | 100.4 | 95.4 | 108.1 | 100.4 | 44.5 | 44.5 | 98.4 | 0.0 | | | | | | | | | | |
| SYG 6 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .5 | .5 | | 0.0 | | | | | | | | | | |
| 7- CROPLAND | 4239.5 | 128.5 | 4327.5 | 4554.0 | 4223.3 | 622.7 | 1872.3 | 39.3 | 39.3 | | | | | | | | | | |
| SYG 7 | 107.3 | 3.3 | 102.0 | 115.3 | 106.9 | 15.8 | 47.4 | | 107.3 | | | | | | | | | | |
| 8- CROPLAND | 210147.7 | 159242.1 | 19949.8 | 224474.3 | 206837.5 | 44736.1 | 99749.7 | 62433.8 | | | | | | | | | | | |
| SYG 8 | 3.3 | 2.5 | 3.2 | 3.6 | 3.3 | .7 | 1.5 | | | | | | | | | | | | |
| 9- VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 731.4 (ACRES) | | | | | | | | | | | | | | | |
| SYG 9 | 0.0 | 0.0 (ACRES) | | | | | | | | | | | | | | | | | |
| 10- PASTURE | 35.0 | 35.0 (TONS) | OTHER LAND | 5199.1 (ACRES) | | | | | | | | | | | | | | | |
| SYG 10 | 672.1 | 672.1 (ACRES) | JSE AREA | | | | | | | | | | | | | | | | |
| | .05 | .05 (TONS/ACRE) | | | | | | | | | | | | | | | | | |
| 11- JOODLAND | 540.6 | 540.6 (TONS) | MISSING DATA | 1265.2 (ACRES) | | | | | | | | | | | | | | | |
| SYG 11 | 7759.1 | 7759.1 (ACRES) | | | | | | | | | | | | | | | | | |
| | .07 | .07 (TONS/ACRE) | | | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | | | | | | | |
| | 214444.4 | 162655.0 | 204105.4 | 228974.1 | 211095.4 | 46116.1 | 102106.6 | 72538.2 | | | | | | | | | | | |
| | 3.0 | 2.2 | 2.8 | 3.2 | 2.9 | .6 | 1.4 | | | | | | | | | | | | |
| PERCENT REDUCTION: | 0.0 | 24.2 | 4.8 | -6.8 | 1.6 | 78.5 | 52.4 | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK UPSTM. FROM AICHOLZ DITC COUNTY: 02 CRAWFORD, OHIO

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO PLOUGH AND EXISTING ONLY (TONS/ACRE) | FALL PLOUGH ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM TILLAGE REDUCTION (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOUGH AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) |
|---------------------------------------|--|--|------------------------------|-------------------------------|---------------------------------------|--|------------------------------------|-----------------------------------|
| CROPLAND 1 | 29461.5 | 18137.5 | 28111.2 | 31302.3 | 4173.7 | 12766.7 | 3657.2 | 3657.2 |
| | 8.1 | 5.0 | 7.7 | 8.5 | 7.0 | 3.3 | 8.1 | 8.1 |
| CROPLAND 2 | 42178.7 | 31899.9 | 40245.5 | 44214.9 | 40946.5 | 5975.3 | 11307.5 | 7709.7 |
| | 3.7 | 2.8 | 3.6 | 4.3 | 3.6 | 1.5 | 4.3 | 4.3 |
| CROPLAND 3 | 3994.8 | 3994.0 | 3810.9 | 4243.6 | 3877.5 | 3994.0 | 2322.8 | 0.0 |
| | 1.7 | 1.7 | 1.6 | 1.8 | 1.7 | 1.7 | 1.7 | 0.0 |
| CROPLAND 4 | 5425.8 | 5425.8 | 5177.1 | 5764.9 | 5267.5 | 2351.2 | 6059.0 | 0.0 |
| | .9 | .9 | .9 | 1.0 | .9 | .4 | .4 | 0.0 |
| CROPLAND 5 | 552.5 | 552.5 | 527.2 | 547.1 | 536.4 | 552.5 | 512.3 | 0.0 |
| | .9 | .9 | .9 | 1.0 | .9 | .9 | .9 | 0.0 |
| CROPLAND 10 | 544.5 | 39.5 | 529.1 | 589.2 | 536.3 | 78.6 | 9.9 | 9.9 |
| | 56.0 | 4.0 | 53.4 | 59.5 | 54.4 | 7.9 | 20.3 | 56.0 |
| VINEYARDS AND ORCH. | 82167.0 | 60049.2 | 78401.0 | 87302.6 | 79770.4 | 17125.3 | 23969.2 | |
| | 3.4 | 2.5 | 3.3 | 3.6 | 3.3 | .7 | 1.5 | |
| | 0.0 | 0.0 (TONS) | 4ATER | | 168.0 (ACRES) | | | |
| | 0.0 | 0.0 (ACRES) | AREA ONLY | | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | | | | | | |
| GRASSLAND AND PASTURE | 13.4 | 13.4 (TONS) | OTHER LAND | | 1304.7 (ACRES) | | | |
| | 286.6 | 286.6 (ACRES) | USE AREA | | | | | |
| | .05 | .05 (TONS/ACRE) | | | | | | |
| WOODLAND | 160.0 | 160.0 (TONS) | MISSING DATA | | 385.5 (ACRES) | | | |
| | 2392.0 | 2392.0 (ACRES) | | | | | | |
| | .07 | .07 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 83531.6 | 61093.8 | 79711.1 | 87441.5 | 81100.2 | 17549.0 | 34910.4 | 27033.3 |
| | 3.1 | 2.3 | 2.9 | 3.3 | 3.0 | .6 | 1.4 | |
| PERCENT REDUCTION: | 0.0 | 26.9 | 4.6 | -6.2 | 2.9 | 79.0 | 53.4 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | UPSTN. FROM A1C10L2 DITC COUNTY: 03 SENECA, 0410 | | | | | | | | | |
|--------------------------------------|-------------------------------|--|--------------------------|--------------------------|----------------------------------|--|------------------------------|---------------------------------------|--|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS) | POT. REDUCED LOSS TO T. AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. STOP LAND (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) | | | |
| CROPLAND 1 | 4106.6 | 2167.4 | 2498.7 | 4418.5 | 4106.6 | 1819.1 | 751.2 | 543.6 | | | |
| SWG | 5.5 | 2.9 | 5.2 | 5.9 | 5.5 | 2.4 | | 6.6 | | | |
| CROPLAND 2 | 52307.8 | 40941.0 | 49659.3 | 56280.5 | 52307.8 | 23174.3 | 13967.3 | 5347.4 | | | |
| SWG | 3.8 | 3.0 | 3.6 | 4.1 | 3.8 | 1.7 | | 5.1 | | | |
| CROPLAND 3 | 4123.0 | 4123.0 | 3914.2 | 4436.1 | 4123.0 | 4123.0 | 2609.4 | 0.7 | | | |
| SWG | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.5 | | 0.0 | | | |
| CROPLAND 4 | 441.7 | 441.7 | 419.4 | 475.3 | 441.7 | 195.7 | 533.7 | 0.0 | | | |
| SWG | .8 | .8 | .8 | .9 | .8 | .4 | | 0.0 | | | |
| CROPLAND 5 | 508.9 | 508.9 | 443.1 | 547.5 | 508.9 | 508.9 | 494.2 | 0.0 | | | |
| SWG | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | | 0.0 | | | |
| CROPLAND 8 | 60.3 | 60.3 | 57.2 | 64.8 | 60.3 | 26.7 | 59.3 | 0.0 | | | |
| SWG | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .5 | | 0.0 | | | |
| CROPLAND | 61548.3 | 48243.2 | 54431.9 | 66222.7 | 61548.3 | 29848.3 | 19315.3 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 257.0 (ACRES) | | | | | | |
| GRASSLAND AND PASTURE | 168.0 | 168.0 (TONS) | 168.0 (TONS) | 168.0 (TONS) | 1255.3 (ACRES) | | | | | | |
| WOODLAND | 152.4 | 152.4 (TONS) | 152.4 (TONS) | 152.4 (TONS) | 405.3 (ACRES) | | | | | | |
| SWG | 2866.4 | 2866.4 (TONS) | 2866.4 (TONS) | 2866.4 (TONS) | | | | | | | |
| SWG | .05 | .05 (TONS/ACRE) | .05 (TONS/ACRE) | .05 (TONS/ACRE) | | | | | | | |
| ANNUAL TOTAL POTENTIAL GROSS EROSION | 62881.0 | 49323.3 | 59705.4 | 67644.1 | 62881.0 | 30578.3 | 21755.0 | | | | |
| PERCENT REDUCTION: | 2.9 | 2.3 | 2.7 | 3.1 | 2.9 | 1.4 | | | | | |
| | 0.0 | 21.6 | 5.1 | -7.6 | 0.0 | 51.0 | | | | | |

Lake Erie Wastewater Management Study U.S. Army Corps of Engineers, Buffalo District
Land Management Alternatives: Best Management Practice Scenarios

| BASIN: HONEY CREEK | | | | | | | | | | UPSTM. FROM A1C40LZ DITC COUNTY: ON TUDON, OHIO | | | | | | | | | |
|---------------------------------------|------------------------------------|-------------------------------------|--|--------------------------|-------------------------------|----------------------------------|---|------------------------------------|---------------------------------------|---|---------|---------|---------|---------|--------|--------|--------|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOU AREA (TONS/ACRE) | SOIL WASH. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | | | | | | | | | |
| 1 CROPLAND | 6211.7 | 3162.9 | 5917.1 | 6586.3 | 5941.6 | 859.3 | 2682.3 | 632.6 | 632.6 | 9.8 | | | | | | | | | |
| 2 CROPLAND | 11387.3 | 10368.5 | 12847.2 | 11927.4 | 10892.2 | 1575.3 | 4771.2 | 3449.6 | 3449.6 | 3.3 | | | | | | | | | |
| 3 CROPLAND | 95.1 | 88.9 | 90.5 | 99.6 | 90.9 | 95.1 | 95.1 | 39.5 | 9.9 | 9.9 | | | | | | | | | |
| 4 CROPLAND | 1746.0 | 1746.0 | 1663.2 | 1828.4 | 1670.1 | 751.5 | 751.5 | 1255.3 | 0.8 | 0.8 | | | | | | | | | |
| 5 CROPLAND | 1540.5 | 1540.5 | 1467.5 | 1613.6 | 1473.5 | 1540.5 | 1540.5 | 1698.2 | 0.0 | 0.0 | | | | | | | | | |
| 6 CROPLAND | 20980.6 | 16906.8 | 19985.5 | 21975.7 | 20068.3 | 4501.7 | 9740.5 | 7967.2 | 7967.2 | 1.4 | | | | | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 137.7 | 137.7 | 0.0 | 0.0 | 0.0 | | | | | | | | | |
| GRASSLAND AND PASTURE | 2.5 | 79.1 | 79.1 | 79.1 | 79.1 | 1775.2 | 1775.2 | 0.0 | 0.0 | 0.0 | | | | | | | | | |
| WOODLAND | 52.6 | 800.6 | 800.6 | 800.6 | 800.6 | 49.4 | 49.4 | 0.0 | 0.0 | 0.0 | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | 21166.5 | 17667.3 | 20165.2 | 22167.7 | 20248.5 | 4887.6 | 9855.5 | 7996.3 | | |
| PERCENT REDUCTION: | | | | | | | | | | 0.0 | 19.4 | 4.7 | -4.7 | 4.2 | 76.9 | 53.4 | 0.0 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | UPSTM. FROM ALCANIZ DITCH COUNTY: 62 ALL IN PASTIN | | | | | | | | | |
|---------------------------------------|-------------------------------|---|---------------------------------|--------------------------|--------------------------|----------------------------------|--|------------------------------------|---|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS) | POT. REDUCED LOSS TO T. AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE) | SOIL NGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | | |
| 1 CROPLAND | 39779.9 | 23467.8 | 37927.0 | 42227.7 | 34650.5 | 5639.5 | 17188.5 | 5040.9 | 4833.4 | | |
| 546 | 7.9 | 4.7 | 7.5 | 8.4 | 7.7 | 1.1 | 3.4 | | 4.1 | | |
| 2 CROPLAND | 105918.9 | 81255.5 | 100795.7 | 113071.1 | 104192.6 | 15281.5 | 46241.3 | 29540.4 | 16506.6 | | |
| 546 | 3.7 | 2.9 | 3.5 | 3.9 | 3.6 | .5 | 1.5 | | 4.4 | | |
| 3 CROPLAND | 8212.0 | 8205.9 | 7815.7 | 8779.3 | 8031.4 | 8212.0 | 4971.8 | 4971.8 | 9.9 | | |
| 546 | 1.7 | 1.7 | 1.6 | 1.8 | 1.6 | 1.7 | 1.7 | | 3.6 | | |
| 4 CROPLAND | 7613.5 | 7613.5 | 7259.7 | 8049.0 | 7379.4 | 3278.4 | 3273.4 | 7448.1 | 0.0 | | |
| 546 | 1.0 | 1.0 | .0 | 1.0 | .9 | .4 | .4 | | 0.0 | | |
| 5 CROPLAND | 2601.9 | 2601.9 | 2477.8 | 2748.2 | 2518.8 | 2601.9 | 2601.9 | 2797.2 | 0.0 | | |
| 546 | .9 | .9 | .9 | 1.0 | .9 | .9 | .3 | | 0.0 | | |
| 6 CROPLAND | 60.3 | 60.3 | 57.2 | 64.0 | 60.3 | 25.7 | 25.7 | 59.3 | 0.0 | | |
| 546 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .5 | .5 | | 0.0 | | |
| 7 CROPLAND | 554.5 | 39.5 | 529.1 | 589.2 | 538.3 | 78.6 | 240.3 | 9.9 | 9.9 | | |
| 546 | 56.0 | 4.0 | 53.4 | 59.5 | 54.4 | 7.9 | 24.3 | | 56.0 | | |
| 8 CROPLAND | 164741.0 | 125240.4 | 156862.2 | 175549.3 | 161451.3 | 35128.6 | 77789.3 | 49371.5 | 4833.4 | | |
| 546 | 3.3 | 2.5 | 3.2 | 3.6 | 3.3 | .7 | 1.5 | | 4.1 | | |
| 9 VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 622.7 (ACRES) | | | | | | | |
| 546 | 0.0 | 0.0 (ACRES) | AREA ONLY | 622.7 (ACRES) | | | | | | | |
| 10 GRASSLAND AND PASTURE | 24.8 | 24.8 (TONS) | OTHER LAND USE AREA | 4339.2 (ACRES) | | | | | | | |
| 546 | 533.7 | 533.7 (ACRES) | USE AREA | 4339.2 (ACRES) | | | | | | | |
| 11 WOODLAND | 365.1 | 365.1 (TONS) | MISSING DATA | 840.2 (ACRES) | | | | | | | |
| 546 | 6059.0 | 6059.0 (ACRES) | MISSING DATA | 840.2 (ACRES) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | |
| 167610.0 | 127520.5 | 159612.9 | 174540.6 | 164250.6 | 36041.6 | 79353.2 | 56804.5 | | | | |
| 3.0 | 2.2 | 2.4 | 3.1 | 2.9 | .6 | 1.4 | | | | | |
| PERCENT REDUCTION: | | | | | | | | | | | |
| 0.0 | 23.9 | 4.4 | -6.5 | 2.0 | 78.5 | 52.7 | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: HONEY CREEK | | ATTICANT 4 | | COUNTY: J2 CRAWFORD, OHIO | | | | | | | | | | | | | | | |
|---------------------------------------|---|-------------------------------------|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|-------------------------------|---------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) |
| 1 CROPLAND | 29461.5 | 18137.5 | 28111.2 | 31302.9 | 28602.2 | 4173.7 | 12766.7 | 3657.2 | 1 | 3657.2 | 3657.2 | 3657.2 | 3657.2 | 3657.2 | 3657.2 | 3657.2 | 3657.2 | 3657.2 | 3657.2 |
| 2 CROPLAND | 42178.7 | 31899.9 | 40245.5 | 44414.9 | 40948.5 | 5975.3 | 18277.4 | 11307.5 | 2 | 7709.7 | 7709.7 | 7709.7 | 7709.7 | 7709.7 | 7709.7 | 7709.7 | 7709.7 | 7709.7 | 7709.7 |
| 3 CROPLAND | 3994.0 | 3994.0 | 3810.9 | 4243.6 | 3877.5 | 3994.0 | 3994.0 | 2322.0 | 3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 CROPLAND | 5425.8 | 5425.8 | 5177.1 | 5764.9 | 5267.5 | 2351.2 | 2351.2 | 6059.0 | 4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5 CROPLAND | 552.5 | 552.5 | 527.2 | 587.1 | 536.4 | 552.5 | 552.5 | 612.8 | 5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6 CROPLAND | 554.5 | 39.5 | 529.1 | 589.2 | 538.3 | 78.6 | 240.3 | 9.9 | 6 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 |
| 7 CROPLAND | 82167.0 | 60049.2 | 78401.0 | 87302.6 | 79770.4 | 17125.5 | 38182.1 | 23359.2 | 7 | 56.0 | 56.0 | 56.0 | 56.0 | 56.0 | 56.0 | 56.0 | 56.0 | 56.0 | 56.0 |
| 8 VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 168.6 (ACRES) | 168.6 (ACRES) | | 8 | | | | | | | | | | |
| 9 GRASSLAND AND PASTURE | 13.4 | 13.4 (TONS) | 13.4 (TONS) | 13.4 (TONS) | 13.4 (TONS) | 1304.7 (ACRES) | 1304.7 (ACRES) | | 9 | | | | | | | | | | |
| 10 WOODLAND | 160.0 | 160.0 (TONS) | 160.0 (TONS) | 160.0 (TONS) | 160.0 (TONS) | 585.1 (ACRES) | 585.1 (ACRES) | | 10 | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | | | | | | | |
| 83531.6 | 61093.8 | 77711.1 | 86741.5 | 41100.3 | 17549.0 | 38910.4 | 27033.3 | | | | | | | | | | | | |
| PERCENT REDUCTION: | 0.0 | 26.5 | 4.6 | -6.2 | 2.9 | 79.0 | 53.4 | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: PEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: HONEY CREEK | | COUNTY: 03 SEVUCA, OHIO | | | | | | | | | |
|---------------------------------------|--|--|-------------------------------|-------------------------|-------------------------|---------------------------------|---------------------------------------|--------------------------------|---------------------------------------|-------------------------------|--------------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TNS) | ATTICAPT 4 | | FALL PLOWING ONLY (TNS) | WINTER COVER CROP (TNS) | MAXIMUM REDUCTION TILLAGE (TNS) | REDUCED TILLAGE: CHESEBURY AREA (TNS) | SOIL MGMT- 3RD LD AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) | TOTAL POTENTIAL GROSS EROSION | PERCENT REDUCTION: |
| | | LOSS TO T. PLOWING AND EXISTING ONLY (TNS) | LOSS TO T. PLOWING ONLY (TNS) | | | | | | | | |
| 1. CROPLAND 1 | 700.1 | 399.0 | 664.7 | 753.3 | 700.1 | 103.4 | 310.2 | 148.5 | 109.7 | | |
| 546 | 4.7 | 2.7 | 4.5 | 5.1 | 4.7 | .7 | 2.1 | | 6.1 | | |
| 2. CROPLAND 2 | 19291.4 | 16514.5 | 18314.6 | 20756.5 | 19291.4 | 2498.9 | 8546.3 | 5594.5 | 929.1 | | |
| 546 | 3.5 | 3.6 | 3.3 | 3.7 | 3.5 | .5 | 1.5 | | 6.0 | | |
| 3. CROPLAND 3 | 2593.4 | 2593.4 | 2462.1 | 2730.4 | 2593.4 | 2593.4 | 2593.4 | 1590.9 | 9.0 | | |
| 546 | 1.6 | 1.6 | 1.6 | 1.7 | 1.6 | 1.6 | 1.5 | | 0.0 | | |
| 4. CROPLAND 4 | 395.2 | 395.2 | 375.2 | 425.2 | 395.2 | 175.1 | 175.1 | 474.4 | 0.0 | | |
| 546 | .8 | .8 | .8 | .9 | .8 | .4 | .4 | | 0.0 | | |
| 5. CROPLAND 5 | 32.3 | 32.3 | 30.7 | 34.8 | 32.3 | 32.3 | 32.3 | 29.7 | 0.0 | | |
| 546 | 1.1 | 1.1 | 1.0 | 1.2 | 1.1 | 1.1 | 1.1 | | 0.0 | | |
| 6. CROPLAND 6 | 23012.4 | 19939.4 | 21447.3 | 24760.2 | 23012.4 | 5753.1 | 11657.9 | 7877.9 | | | |
| 546 | 2.9 | 2.5 | 2.4 | 3.1 | 2.9 | .7 | 1.5 | | | | |
| 7. VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 168.0 | | | | | |
| 546 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | |
| 8. GRASSLAND AND PASTURE | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 751.4 | | | | | |
| 546 | .85 | .85 | .85 | .85 | .85 | | | | | | |
| 9. WOODLAND | 61.1 | 61.1 | 61.1 | 61.1 | 61.1 | 395.4 | | | | | |
| 546 | .85 | .85 | .85 | .85 | .85 | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | |
| | 24072.0 | 20861.2 | 22856.6 | 25895.2 | 24072.0 | 6067.9 | 12227.9 | 9558.1 | | | |
| | 2.5 | 2.2 | 2.4 | 2.7 | 2.5 | .6 | 1.5 | | | | |
| PERCENT REDUCTION: | | | | | | | | | | | |
| | 8.0 | 13.3 | 5.0 | -7.6 | 0.0 | 74.8 | 49.2 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | ATTICART 4 | | COUNTY: 04 MURON, OHIO | | | | | | | | | | | | | |
|---------------------------------------|--------------------------|-------------------|-----------------|------------------------|-------------------|------------------|-----------------|-----------------|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING POT. REDUCE | SOIL SPRING | FALL PLOWING | WINTER COVER | MAXIMUM REDUCTION | REDUCED TILLAGE: | SOIL MGMT. | EXISTING | | | | | | | | | |
| | GROSS LOSS TO T. PLOWING | AND EXISTING ONLY | ONLY | CRDP | TILLAGE | CHISEL PLOW AREA | STOOP LAND | SOIL LOSS | | | | | | | | | |
| | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (ACRES) | (ACRES) | | | | | | | | | |
| | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | | | | | | | | | |
| CROPLAND 1 | 6211.7 | 3162.9 | 5917.1 | 6506.3 | 5941.6 | 859.3 | 632.6 | 632.6 | | | | | | | | | |
| SW | 9.8 | 5.6 | 9.4 | 10.3 | 9.4 | 1.4 | 9.1 | 9.8 | | | | | | | | | |
| CROPLAND 2 | 11387.3 | 10368.5 | 10447.2 | 11927.4 | 10892.2 | 1575.3 | 3449.6 | 3449.6 | | | | | | | | | |
| SW | 3.3 | 3.0 | 3.1 | 3.5 | 3.2 | .5 | 1.4 | 3.3 | | | | | | | | | |
| CROPLAND 3 | 95.1 | 88.9 | 90.3 | 99.5 | 90.9 | 95.1 | 39.3 | 39.3 | | | | | | | | | |
| SW | 2.4 | 2.2 | 2.3 | 2.5 | 2.3 | 2.4 | 2.4 | 3.6 | | | | | | | | | |
| CROPLAND 4 | 1746.0 | 1746.0 | 1663.2 | 1828.8 | 1670.1 | 731.5 | 1255.3 | 1255.3 | | | | | | | | | |
| SW | 1.4 | 1.4 | 1.3 | 1.5 | 1.3 | .6 | .5 | 0.0 | | | | | | | | | |
| CROPLAND 5 | 1540.5 | 1540.5 | 1467.3 | 1513.6 | 1473.5 | 1540.5 | 1698.2 | 1698.2 | | | | | | | | | |
| SW | .9 | .9 | .9 | 1.0 | .9 | .9 | .9 | 0.0 | | | | | | | | | |
| CROPLAND | 20980.6 | 16906.8 | 19985.5 | 21975.7 | 20068.3 | 4801.7 | 7067.2 | 7067.2 | | | | | | | | | |
| SW | 3.0 | 2.4 | 2.8 | 3.1 | 2.8 | .7 | 1.4 | | | | | | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | | | | | | | | | |
| SW | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | | | | | |
| GRASSLAND AND PASTURE | 1.7 | 1.7 (TONS) | 1.7 (TONS) | 1.7 (TONS) | 1.7 (TONS) | 1.7 (TONS) | 1.7 (TONS) | 1.7 (TONS) | | | | | | | | | |
| SW | 69.2 | 69.2 (ACRES) | 69.2 (ACRES) | 69.2 (ACRES) | 69.2 (ACRES) | 69.2 (ACRES) | 69.2 (ACRES) | 69.2 (ACRES) | | | | | | | | | |
| SW | .02 | .02 (TONS/ACRE) | .02 (TONS/ACRE) | .02 (TONS/ACRE) | .02 (TONS/ACRE) | .02 (TONS/ACRE) | .02 (TONS/ACRE) | .02 (TONS/ACRE) | | | | | | | | | |
| WOODLAND | 52.6 | 52.6 (TONS) | 52.6 (TONS) | 52.6 (TONS) | 52.6 (TONS) | 52.6 (TONS) | 52.6 (TONS) | 52.6 (TONS) | | | | | | | | | |
| SW | 600.6 | 800.6 (ACRES) | 800.6 (ACRES) | 800.6 (ACRES) | 800.6 (ACRES) | 800.6 (ACRES) | 800.6 (ACRES) | 800.6 (ACRES) | | | | | | | | | |
| SW | .07 | .07 (TONS/ACRE) | .07 (TONS/ACRE) | .07 (TONS/ACRE) | .07 (TONS/ACRE) | .07 (TONS/ACRE) | .07 (TONS/ACRE) | .07 (TONS/ACRE) | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 21165.8 | 17066.7 | 20164.5 | 22167.1 | 20247.8 | 4886.2 | 7986.4 | 7986.4 | | | | | | | | | |
| SW | 2.7 | 2.1 | 2.5 | 2.8 | 2.5 | .6 | 1.2 | 1.2 | | | | | | | | | |
| PERCENT REDUCTION: | 0.0 | 19.4 | 4.7 | -4.7 | 4.3 | 76.9 | 53.4 | 53.4 | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | COUNTY: 62 ALL IN RASIN | | | | | | | | | |
|---------------------------------------|--|----------------------------------|------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---------------------------------------|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO PLUMING ONLY (TONS/ACRE) | SOIL SPRING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM TILLAGE REDUCTION (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WASH: SLOPE LAND AREA (ACRES) | EXISTING SOIL LOSS > 7 FACTOR (ACRES) | | |
| | | | | | | | | | | | |
| CROPLAND 1 | 36373.3 | 21699.5 | 34692.9 | 38562.5 | 35244.0 | 3136.4 | 15579.4 | 4438.0 | 4394.5 | | |
| | 8.2 | 4.9 | 7.6 | 8.7 | 7.0 | 1.2 | 3.5 | | 4.3 | | |
| CROPLAND 2 | 72902.5 | 58828.2 | 69451.1 | 77547.1 | 71176.2 | 10405.6 | 31614.0 | 20361.0 | 12044.4 | | |
| | 3.6 | 2.9 | 3.4 | 3.4 | 3.5 | .5 | 1.5 | | 4.2 | | |
| CROPLAND 3 | 6682.5 | 6676.3 | 6363.6 | 7133.6 | 6561.9 | 6682.5 | 6682.5 | 4003.1 | 9.9 | | |
| | 1.7 | 1.7 | 1.6 | 1.8 | 1.6 | 1.7 | 1.7 | | 3.6 | | |
| CROPLAND 4 | 7567.0 | 7567.0 | 7215.5 | 8019.0 | 7332.9 | 3257.8 | 3257.8 | 7788.7 | 0.0 | | |
| | 1.0 | 1.0 | .9 | 1.0 | .9 | .4 | .4 | | 9.0 | | |
| CROPLAND 5 | 2125.4 | 2125.4 | 2025.4 | 2235.5 | 2342.3 | 2125.4 | 2125.4 | 2332.7 | 0.0 | | |
| | .9 | .9 | .9 | 1.0 | .9 | .9 | .9 | | 0.0 | | |
| CROPLAND 10 | 554.5 | 39.5 | 529.1 | 589.2 | 538.3 | 78.6 | 240.3 | 9.9 | 9.9 | | |
| | 56.0 | 4.0 | 53.4 | 59.5 | 54.4 | 7.9 | 24.3 | | 56.0 | | |
| CROPLAND | 126205.2 | 96935.9 | 120277.6 | 134086.3 | 122895.6 | 27586.3 | 54593.4 | 59333.9 | | | |
| | 3.2 | 2.5 | 3.1 | 3.4 | 3.2 | .7 | 1.3 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS/ACRE) | 533.7 (ACRES) | | | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | | | | | | | | | |
| PASTURE AND PASTURE | 17.0 | 17.4 (TONS) | OTHER LAND | 3815.3 (ACRES) | | | | | | | |
| | 405.3 | 405.3 (ACRES) | USE AREA | | | | | | | | |
| | .04 | .04 (TONS/ACRE) | | | | | | | | | |
| WOODLAND | 273.7 | 273.7 (TONS) | MISSING DATA | 830.3 (ACRES) | | | | | | | |
| | 4428.1 | 4428.1 (ACRES) | | | | | | | | | |
| | .86 | .86 (TONS/ACRE) | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 128896.4 | 99071.9 | 122856.4 | 136927.7 | 125524.1 | 24508.6 | 61027.1 | 44597.5 | | | |
| | 2.9 | 2.2 | 2.8 | 3.1 | 2.8 | .6 | 1.4 | | | | |
| PERCENT REDUCTION: | 8.0 | 23.1 | 4.7 | -6.2 | 2.6 | 77.9 | 52.7 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | COUNTY: 02 CRAWFORD, OHIO | | | | | | | | | |
|---------------------------------------|-------------------------------|---|---------------------------------|--------------------------|--------------------------|----------------------------------|---|------------------------------------|---------------------------------------|------|--|
| LAND USE | EXISTING GROSS EROSION (TONS) | POT. REDUCE LOSS TO T. AND EXISTING ONLY (TONS) | SOIL SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL P. 3D AREA (TONS) | 521L WENT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | | |
| | | | | | | | | | | | |
| CROPLAND 1 | 21667.1 | 12661.7 | 20674.0 | 23021.3 | 21035.2 | 3069.5 | 9389.1 | 2550.1 | 2550.1 | 8.5 | |
| SWG | 8.5 | 5.0 | 8.1 | 9.0 | 8.2 | 1.2 | 3.7 | | | | |
| CROPLAND 2 | 21182.2 | 14867.6 | 26135.0 | 22421.1 | 20486.7 | 2989.5 | 9144.3 | 5406.7 | 3706.6 | 4.7 | |
| SWG | 3.5 | 2.7 | 3.7 | 4.1 | 3.8 | .6 | 1.7 | | | | |
| CROPLAND 3 | 1988.0 | 1988.0 | 1896.9 | 2112.2 | 1930.0 | 1988.0 | 1988.0 | 1187.0 | 0.0 | 0.0 | |
| SWG | 1.8 | 1.8 | 1.7 | 1.9 | 1.7 | 1.8 | 1.3 | | | | |
| CROPLAND 4 | 3458.8 | 3458.8 | 3300.2 | 3674.9 | 3357.9 | 1498.8 | 1498.8 | 3835.1 | 0.0 | 0.0 | |
| SWG | .9 | .9 | .9 | 1.0 | .9 | .4 | .4 | | | | |
| CROPLAND 5 | 279.1 | 279.1 | 266.4 | 296.6 | 271.0 | 279.1 | 279.1 | 306.4 | 0.0 | 0.0 | |
| SWG | .9 | .9 | .9 | 1.0 | .9 | .9 | .9 | | | | |
| CROPLAND 10 | 554.5 | 39.5 | 529.1 | 569.2 | 538.3 | 78.6 | 240.3 | 9.9 | 9.9 | 56.0 | |
| SWG | 56.0 | 4.0 | 53.4 | 59.5 | 54.4 | 7.9 | 24.3 | | | | |
| CROPLAND | 49849.7 | 33294.7 | 46801.6 | 52115.3 | 47619.1 | 9903.5 | 22519.6 | 13215.2 | | | |
| SWG | 3.7 | 2.5 | 3.5 | 3.9 | 3.6 | .7 | 1.7 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS) | 79.1 (ACRES) | | | | | | |
| GRASSLAND AND PASTURE | 287.6 | 207.6 (ACRES) | 207.6 (ACRES) | 672.1 (ACRES) | | | | | | | |
| SWG | .05 | .05 (TONS/ACRE) | .05 (TONS/ACRE) | | | | | | | | |
| WOODLAND | 102.8 | 102.8 (TONS) | 102.8 (TONS) | 187.8 (ACRES) | | | | | | | |
| SWG | .07 | .07 (TONS/ACRE) | .07 (TONS/ACRE) | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 49786.1 | 33831.1 | 47509.4 | 52890.6 | 48337.3 | 10143.0 | 22933.5 | 14984.5 | | | |
| SWG | 3.3 | 2.3 | 3.2 | 3.5 | 3.2 | .7 | 1.5 | | | | |
| PERCENT REDUCTION: | 0.0 | 32.0 | 4.6 | -6.2 | 2.9 | 79.6 | 53.9 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | | WFLS ROAD | | | COUNTY: OS WENEGA, OHIO | | | | | | | | | | | |
|---------------------------------------|--|--|-------------------------------|-------------------------------|---------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE) | SOIL WASH. LOSS > T FACTOR (TONS/ACRE) | | | | | | | | | | |
| CROPLAND 2 | 74.6 1.9 | 74.6 1.9 | 70.2 1.6 | 80.3 2.0 | 74.6 1.9 | 53.1 .5 | 39.5 | | | | | | | | | | |
| CROPLAND | 74.6 1.9 | 74.6 1.9 | 70.2 1.6 | 80.3 2.0 | 74.6 1.9 | 53.1 .5 | 39.5 | | | | | | | | | | |
| VINEYARDS AND ORCH. | 0.0 0.00 | 0.0 0.00 | 0.0 0.00 | 0.0 0.00 | 9.9 0.00 | 9.9 0.00 | 0.0 | | | | | | | | | | |
| GRASSLAND AND PASTURE | 0.0 0.00 | 0.0 0.00 | 0.0 0.00 | 0.0 0.00 | 9.9 0.00 | 9.9 0.00 | 0.0 | | | | | | | | | | |
| WOODLAND | 0.0 0.00 | 0.0 0.00 | 0.0 0.00 | 0.0 0.00 | 365.7 0.00 | 365.7 0.00 | 0.0 | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | | | | | |
| | 74.6 1.9 | 74.6 1.9 | 70.2 1.6 | 80.3 2.0 | 74.6 1.9 | 53.1 .5 | 39.5 | | | | | | | | | | |
| PERCENT REDUCTIONS: | | | | | | | | | | | | | | | | | |
| | 0.0 | 0.0 | 5.1 | -7.5 | 0.0 | 85.3 | 53.5 | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: MONEY CREEK | | COUNTY: LAKE HURON, OHIO | | | | | | | | | |
|---------------------------------------|---|---|--------------------------------|-----------------------------|-----------------------------|----------------------------------|--------------------------------|-----------------------------|---------------------------------------|---|---|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO TILLAGE (TONS/ACRE) | FALL PLOWING (TONS/ACRE) | WINTER COVER (TONS/ACRE) | MAXIMUM REDUCTION (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | CHISEL PLOW AREA (ACRES) | SOIL MGMT. 3/31/80 LAND (ACRES) | EXISTING SOIL LOSS P.T. FACTOR (ACRES) | EXISTING SOIL LOSS P.T. FACTOR (ACRES) |
| | | | | | | | | | | | |
| 1 CROPLAND 1 | 393.7 | 197.7 | 375.1 | 412.4 | 376.6 | 54.5 | 165.8 | 39.5 | 39.5 | 39.5 | 39.5 |
| 2 CROPLAND 2 | 2267.9 | 2075.7 | 2160.3 | 2375.5 | 2169.3 | 313.7 | 958.2 | 691.9 | 691.9 | 691.9 | 691.9 |
| 3 CROPLAND 3 | 16.7 | 16.7 | 15.9 | 17.5 | 15.9 | 16.7 | 16.7 | 9.9 | 9.9 | 9.9 | 9.9 |
| 4 CROPLAND 4 | 622.5 | 622.5 | 593.0 | 652.0 | 595.4 | 260.8 | 260.8 | 436.9 | 436.9 | 436.9 | 436.9 |
| 5 CROPLAND 5 | 248.9 | 248.9 | 237.1 | 260.8 | 238.1 | 248.9 | 248.9 | 227.3 | 227.3 | 227.3 | 227.3 |
| 6 CROPLAND 6 | 3549.7 | 3161.5 | 3381.4 | 3718.2 | 3395.3 | 894.6 | 1641.6 | 1403.5 | 1403.5 | 1403.5 | 1403.5 |
| 7 VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 29.7 | 29.7 | 1.2 | 1.2 | 1.2 | 1.2 |
| 8 GRASSLAND AND PASTURE | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 89.0 | 89.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 9 WOODLAND | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 0.0 | 0.0 | 53.7 | 53.7 | 53.7 | 53.7 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 3552.0 | 3163.8 | 3383.7 | 3723.5 | 3397.6 | 896.9 | 1643.3 | 1472.7 | 1472.7 | 1472.7 | 1472.7 |
| PERCENT REDUCTION: | 8.0 | 10.9 | 4.7 | -4.7 | 4.3 | 74.7 | 53.7 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: HONEY CREEK | | | COUNTY: 62 ALL IN BASIN | | | | | | | | | |
|---|--|---|---------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WASH: GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | | | |
| 1 CROPLAND | 22060.8 | 12459.3 | 21949.1 | 23433.7 | 21911.8 | 3124.0 | 9554.0 | 2589.7 | 2589.7 | | | |
| 546 | 8.5 | 5.0 | 8.1 | 9.0 | 8.3 | 1.2 | 3.7 | 9.5 | 9.5 | | | |
| 2 CROPLAND | 23467.3 | 17040.5 | 22348.1 | 24901.0 | 22752.7 | 3317.3 | 10136.3 | 6148.0 | 4399.5 | | | |
| 546 | 3.8 | 2.8 | 3.6 | 4.1 | 3.7 | .5 | 1.5 | 4.5 | 4.5 | | | |
| 3 CROPLAND | 2004.7 | 2004.7 | 1912.8 | 2129.7 | 1946.0 | 2004.7 | 2004.7 | 1116.3 | 0.0 | | | |
| 546 | 1.8 | 1.8 | 1.7 | 1.9 | 1.7 | 1.8 | 1.8 | 1.8 | 0.0 | | | |
| 4 CROPLAND | 4081.3 | 4081.3 | 3893.2 | 4326.9 | 3953.3 | 1759.5 | 1753.5 | 4270.3 | 0.0 | | | |
| 546 | 1.0 | 1.0 | .9 | 1.0 | .9 | .4 | .4 | 4.4 | 0.0 | | | |
| 5 CROPLAND | 528.1 | 528.1 | 503.5 | 557.3 | 509.1 | 528.1 | 528.1 | 533.7 | 0.0 | | | |
| 546 | 1.0 | 1.0 | .9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | | | |
| 10 CROPLAND | 554.5 | 39.5 | 529.1 | 589.2 | 538.3 | 74.6 | 248.3 | 9.3 | 9.9 | | | |
| 546 | 56.0 | 4.0 | 53.4 | 59.5 | 54.4 | 7.9 | 24.3 | 56.0 | 56.0 | | | |
| 1 CROPLAND | 52496.7 | 36553.4 | 50275.8 | 55937.8 | 51111.2 | 10812.3 | 24223.5 | 16668.2 | | | | |
| | 3.6 | 2.5 | 3.4 | 3.4 | 3.5 | .7 | 1.7 | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 118.6 (ACRES) | | | | | | | | |
| | 0.0 | 0.0 (ACRES) | 0.0 (TONS/ACRE) | | | | | | | | | |
| 2 PASTURE AND PASTURE | 11.5 | 11.5 (TONS) | JATER LAND USE AREA | 771.0 (ACRES) | | | | | | | | |
| | 257.0 | 257.0 (ACRES) | 0.04 (TONS/ACRE) | | | | | | | | | |
| 400 LAND | 103.3 | 103.3 (TONS) | MISSING DATA | 553.5 (ACRES) | | | | | | | | |
| | 1393.7 | 1393.7 (ACRES) | | | | | | | | | | |
| | .07 | .07 (TONS/ACRE) | | | | | | | | | | |
| 3 SUMMARY TOTAL POTENTIAL GROSS EROSION | 54602.7 | 37911.9 | 52099.7 | 57953.8 | 52963.5 | 11297.7 | 25163.9 | 16872.4 | | | | |
| | 3.2 | 2.2 | 3.1 | 3.4 | 3.1 | .7 | 1.5 | | | | | |
| PERCENT REDUCTION: | 0.0 | 30.6 | 4.6 | -6.1 | 3.0 | 79.3 | 53.3 | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
 LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: HONEY CREEK TRIBUTARY | | J2 CRAWFORD, OHIO | | | | | | | | | |
|---------------------------------------|---|--|--|--|-----------------------------------|--|---|---|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | REDUCE SOIL LOSS TO 1 AND EXISTING ONLY (TONS/ACRE) | SPRING PLOUGHING ONLY (TONS/ACRE) | FALL PLOUGHING ONLY (TONS/ACRE) | WINTER CROPPING (TONS/ACRE) | MAXIMUM TILLAGE REDUCTION (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. STILL LAND CHISEL PLOW AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) | | |
| | | | | | | | | | | | |
| CROPLAND 1 | 2863.4 | 1638.9 | 2752.2 | 3042.4 | 2779.9 | 405.6 | 1240.9 | 326.2 | 326.2 | | |
| SHRUBS | 8.0 | 5.0 | 8.4 | 9.3 | 8.5 | 1.2 | 3.8 | 8.8 | 8.8 | | |
| CROPLAND 2 | 5858.2 | 4615.0 | 5562.0 | 6215.7 | 5619.5 | 828.8 | 2535.3 | 1581.3 | 1136.7 | | |
| SHRUBS | 3.7 | 2.9 | 3.5 | 3.9 | 3.6 | .5 | 1.6 | 4.1 | 4.1 | | |
| CROPLAND 3 | 380.9 | 380.9 | 363.4 | 404.7 | 369.7 | 380.9 | 380.9 | 227.3 | 0.0 | | |
| SHRUBS | 1.7 | 1.7 | 1.6 | 1.8 | 1.6 | 1.7 | 1.7 | 1.7 | 0.0 | | |
| CROPLAND 4 | 1049.2 | 1049.2 | 1001.1 | 1114.8 | 1018.6 | 454.7 | 454.7 | 1225.5 | 0.0 | | |
| SHRUBS | .9 | .9 | .9 | .9 | .8 | .4 | .4 | 0.0 | 0.0 | | |
| CROPLAND 5 | 77.0 | 77.0 | 73.4 | 81.8 | 74.7 | 77.0 | 77.0 | 128.5 | 0.0 | | |
| SHRUBS | .6 | .6 | .6 | .6 | .6 | .6 | .5 | 0.0 | 0.0 | | |
| CROPLAND | 10220.6 | 7753.0 | 9752.1 | 10859.4 | 9922.4 | 2147.0 | 4689.4 | 3489.1 | | | |
| SHRUBS | 2.9 | 2.2 | 2.8 | 3.1 | 2.8 | .6 | 1.5 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | | |
| GRASSLAND AND PASTURE | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | | |
| WOODLAND | 316.3 | 316.3 (TONS) | 316.3 (TONS) | 316.3 (TONS) | 316.3 (TONS) | 316.3 (TONS) | 316.3 (TONS) | 316.3 (TONS) | 316.3 (TONS) | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 10233.9 | 7766.3 | 9765.4 | 10872.7 | 9935.7 | 2160.3 | 4701.7 | 3805.4 | | | |
| PERCENT REDUCTION: | 0.0 | 24.1 | 4.6 | -6.2 | 2.9 | 78.9 | 54.1 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

BASIN: HONEY CREEK TRIBUTARY WEIS ROAD COUNTY: CHAUTAUQUE, NY

| LAND USE | EXISTING POTENTIAL SOIL SPRING LOSS TO Y PLUING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. SLOPP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) |
|---------------------------------------|---|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---|
| CROPLAND 1 | 2569.6 | 1334.4 | 2487.7 | 2451.9 | 1076.6 | 266.3 | 266.3 |
| CROPLAND 2 | 3671.7 | 3261.8 | 3497.5 | 3512.1 | 1539.3 | 1087.3 | 1087.3 |
| CROPLAND 4 | 306.9 | 306.9 | 292.4 | 293.6 | 128.6 | 227.3 | 227.3 |
| CROPLAND 5 | 905.6 | 905.6 | 862.7 | 866.3 | 905.6 | 1797.1 | 1797.1 |
| CROPLAND | 7453.8 | 5808.7 | 7100.3 | 7129.9 | 3649.1 | 2679.6 | 2679.6 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRASSLAND AND PASTURE | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 |
| WOODLAND | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 7480.4 | 5835.3 | 7126.9 | 7156.5 | 3679.7 | 3094.2 | 3094.2 |
| PERCENT REDUCTION: | 0.0 | 22.0 | 4.7 | 4.3 | 74.3 | 50.9 | 50.9 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: HONEY CREEK TRIBUTARY | | COUNTY: 62 ALL IN BASIN | | | | | | | | | |
|---------------------------------------|--|-------------------------------|-------------------------------|---------------------------------|--|------------------------------------|--|--|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION AND EXISTING ONLY (TNS) | FALL PLOWING ONLY (TNS) | WINTER COVER CROP (TNS) | MAXIMUM TILLAGE REDUCTION (TNS) | REDUCED TILLAGE: CATTLE P. 33 AREA (TNS) | SOIL MGMT. SLOPE LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TNS/ACRE) | | | | |
| CROPLAND 1 S46 | 5433.0 9.2 | 2965.3 5.0 | 5179.9 8.7 | 5733.9 9.7 | 5237.6 1.3 | 593.1 9.2 | 593.1 9.2 | | | | |
| CROPLAND 2 S46 | 9521.8 3.6 | 7876.7 3.0 | 9079.5 3.4 | 10661.6 3.4 | 9191.5 1.3 | 2666.7 3.7 | 2223.9 3.7 | | | | |
| CROPLAND 3 S46 | 380.9 1.7 | 363.4 1.6 | 404.7 1.6 | 369.7 1.6 | 380.9 1.7 | 227.3 1.7 | 0.0 0.0 | | | | |
| CROPLAND 4 S46 | 1356.2 0.9 | 1293.5 0.9 | 1436.3 1.0 | 1312.2 0.9 | 583.3 0.4 | 1453.0 0.4 | 0.0 0.0 | | | | |
| CROPLAND 5 S46 | 982.6 0.8 | 902.6 0.8 | 936.1 0.8 | 1030.4 0.8 | 982.6 0.8 | 1225.6 0.8 | 0.0 0.0 | | | | |
| CROPLAND | 17674.5 2.9 | 13561.7 2.2 | 16852.4 2.7 | 18666.9 3.0 | 17052.2 2.8 | 6167.7 1.4 | 8337.5 1.4 | | | | |
| VINEYARDS AND ORCH. | 0.0 0.00 | 0.0 (TNS) 0.0 (TNS/ACRE) | 0.0 (TNS) 0.0 (TNS/ACRE) | 0.0 (TNS) 0.0 (TNS/ACRE) | 98.8 (ACRES) | | | | | | |
| PASTURE AND PASTURE | 39.5 0.02 | 39.5 (TNS) 0.02 (TNS/ACRE) | 39.5 (TNS) 0.02 (TNS/ACRE) | 39.5 (TNS) 0.02 (TNS/ACRE) | 1650.7 (ACRES) | | | | | | |
| WOODLAND | 39.2 0.06 | 39.2 (TNS) 0.06 (TNS/ACRE) | 39.2 (TNS) 0.06 (TNS/ACRE) | 39.2 (TNS) 0.06 (TNS/ACRE) | 0.5 (ACRES) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 17714.5 2.6 | 13601.7 2.0 | 16892.4 2.5 | 18706.9 2.7 | 17092.2 2.5 | 5959.6 1.2 | 8377.5 1.2 | | | | |
| PERCENT REDUCTION: | 0.0 | 23.2 | 4.6 | -5.6 | 3.5 | 52.7 | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MONEY CREEK | | COUNTY: 02 CATTARAUGUS, OHIO | | ALL IN BASIN | | |
|--|--|------------------------------|-------------------------|---------------------------------|---|--------------------------|
| LAND USE | EXISTING POT. REDUCE SOIL LOSS TO T. PLOWING AND EXISTING ONLY (TNS) | CALL PLOWING ONLY (TNS) | WINTER COVER CROP (TNS) | MAXIMUM REDUCTION TILLAGE (TNS) | REDUCED TILLAGE: CHISEL PLOW AREA (TNS) | SOIL LOSS FACTOR (ACRES) |
| 1 CROPLAND | 13502.3 | 7373.6 | 12883.6 | 14366.2 | 13108.5 | 1912.8 |
| 2 CROPLAND | 13482.0 | 8314.5 | 11337.4 | 12624.6 | 11535.4 | 1483.3 |
| 3 CROPLAND | 1118.5 | 1118.5 | 1067.3 | 1118.4 | 1085.9 | 1118.5 |
| 4 CROPLAND | 2798.8 | 2798.8 | 2670.5 | 2973.7 | 2717.1 | 1212.8 |
| 5 CROPLAND | 74.4 | 74.4 | 71.0 | 79.0 | 72.2 | 74.4 |
| 6 CROPLAND | 554.5 | 39.5 | 529.1 | 589.2 | 538.3 | 78.6 |
| 7 CROPLAND | 56.0 | 4.0 | 53.4 | 59.5 | 54.4 | 7.9 |
| 8 CROPLAND | 29930.5 | 19719.3 | 28558.8 | 31801.1 | 29057.4 | 6080.4 |
| 9 VINEYARDS AND ORCH. | 0.0 | 0.0 (TNS) | 0.0 (ACRES) | 0.0 (TNS/ACRE) | 39.5 (ACRES) | |
| 10 GRASSLAND AND PASTURE | 7.2 | 7.2 (TNS) | OTHER LAND | 464.6 (ACRES) | | |
| 11 FODDLAND | 77.2 | 77.2 (TNS) | MISSING DATA | 98.8 (ACRES) | | |
| 12 SUMMARY TOTAL POTENTIAL GROSS EROSION | 30326.1 | 20009.0 | 28940.2 | 32216.1 | 29444.0 | 6228.7 |
| 13 PERCENT REDUCTION: | 0.0 | 34.6 | 4.6 | -6.2 | 2.3 | 79.5 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: MONNAUK LAKE | | TR16. BELOW MONNAUK | | COUNTY: 33 SENECA, ONTIO | | ALL IN BASIN | | | |
|---------------------------------------|------------------------------------|-------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------|---------------------------------------|--|
| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | LOSS TO F. PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL LOSS > T FACTOR (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | |
| 1. CROPLAND 346 | 2885.9 6.8 | 959.7 3.2 | 1904.3 6.6 | 2158.2 7.3 | 2085.5 6.8 | 296.2 1.0 | 889.7 5.3 | 237.2 7.7 | |
| 2. CROPLAND 346 | 10431.1 4.9 | 6552.3 3.1 | 9903.0 4.6 | 11223.4 5.2 | 10431.1 4.9 | 1540.5 .7 | 4621.4 2.2 | 1798.9 5.2 | |
| 3. CROPLAND 346 | 483.8 1.6 | 483.8 1.6 | 459.3 1.5 | 520.5 1.7 | 483.6 1.6 | 483.6 1.6 | 483.3 1.5 | 386.4 0.8 | |
| 4. CROPLAND 346 | 57.8 .7 | 57.8 .7 | 54.9 .7 | 62.2 .8 | 57.6 .7 | 25.6 .3 | 25.5 .3 | 79.1 0.8 | |
| 5. CROPLAND 346 | 75.4 1.1 | 75.4 1.1 | 71.6 1.0 | 81.2 1.2 | 75.4 1.1 | 75.4 1.1 | 75.4 1.1 | 69.2 0.0 | |
| 6. CROPLAND 346 | 18.0 1.8 | 18.0 1.8 | 9.5 1.0 | 10.4 1.1 | 10.0 1.0 | 4.4 .4 | 4.4 .4 | 9.9 0.0 | |
| 7. CROPLAND | 13064.0 4.5 | 8130.0 2.8 | 12402.6 4.3 | 14056.4 4.8 | 13664.0 4.5 | 2425.9 .5 | 6097.3 2.1 | 2706.7 2.1 | |
| 8. VINEYARDS AND ORCH. | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 19.8 (ACRES) | | | |
| 9. PASTURE AND PASTURE | 1.9 39.5 | 1.9 (TONS) 39.5 (ACRES) | 1.9 (TONS) 39.5 (ACRES) | 1.9 (TONS) 39.5 (ACRES) | 1.9 (TONS) 39.5 (ACRES) | 69.2 (ACRES) | | | |
| 10. WOODLAND | 28.8 365.7 | 28.8 (TONS) 365.7 (ACRES) | 28.8 (TONS) 365.7 (ACRES) | 28.8 (TONS) 365.7 (ACRES) | 28.8 (TONS) 365.7 (ACRES) | 19.8 (ACRES) | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | |
| | 13173.0 | 6209.5 | 12567.6 | 14171.1 | 13173.0 | 2471.3 | 6166.7 | 3331.3 | |
| PERCENT REDUCTIONS: | | | | | | | | | |
| | 4.0 | 2.5 | 5.4 | 4.5 | 4.0 | .7 | 1.9 | | |
| | 0.0 | 37.7 | 5.1 | -7.6 | 9.0 | 81.2 | 53.2 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: HUCKEY CREEK | | AT RT. 67 | | COUNTY: 02 CHAMFORD, OHIO | | | | | | | | | | | | | | | |
|---|--|--|--------------------------|---------------------------|----------------------------------|--|------------------------------------|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS) | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | MINOR CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > T FACTOR (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > T FACTOR (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > T FACTOR (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > T FACTOR (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > T FACTOR (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) |
| 1 | 7091.4 | 3162.9 | 6718.6 | 7481.4 | 6836.0 | 997.5 | 3051.3 | 532.3 | 11.1 | 979.5 | 4.6 | 632.6 | 11.1 | 979.5 | 4.6 | 632.6 | 11.1 | 979.5 | 4.6 |
| 2 | 4923.4 | 1364.7 | 4697.8 | 5231.1 | 4779.8 | 697.5 | 2133.3 | 1245.4 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 3 | 379.3 | 379.3 | 361.9 | 403.0 | 368.3 | 379.3 | 379.3 | 237.2 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 4 | 26.6 | 26.6 | 25.4 | 28.2 | 25.4 | 11.5 | 11.5 | 39.5 | .7 | .7 | .7 | .7 | .7 | .7 | .7 | .7 | .7 | .7 | .7 |
| 5 | 109.1 | 109.1 | 104.1 | 115.9 | 105.9 | 109.1 | 109.1 | 98.9 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 6 | 12479.8 | 7042.6 | 11907.8 | 13259.6 | 12115.8 | 2194.9 | 5684.7 | 2233.3 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.9 | 9.9 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRASSLAND AND PASTURE | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 29.7 | 29.7 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WOODLAND | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 98.8 | 98.8 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SYNTHETIC TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | | | | | | | |
| 12492.9 | | 7338.3 | | 12398.1 | | 12614.4 | | 2286.8 | | 5926.1 | | 2369.3 | | 2.3 | | 54.4 | | | |
| 5.1 | | 2.9 | | 4.8 | | 5.4 | | 2.9 | | 82.3 | | 54.4 | | | | | | | |
| PERCENT REDUCTIONS: | | 0.0 | | 43.5 | | 4.6 | | -6.2 | | 2.9 | | 82.3 | | 54.4 | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: BUCKEYE CREEK | | | AT RT. 67 | | | COUNTY: 03 SEMECA, OHIO | | | | | | | | | | | | | | |
|---------------------------------------|------------------------------------|---|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|-------------------------------|---|--------|--------|--------|--------|--------|-------|--------|-------|--|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | POT. REDUCE LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | | | | | | | | | | | |
| 1 CROPLAND | 106.6 | 106.6 | 101.2 | 114.6 | 106.6 | 15.7 | 47.2 | 29.7 | 0.0 | | | | | | | | | | | |
| 2 CROPLAND | 1643.8 | 1148.8 | 1560.5 | 1768.6 | 1643.8 | 242.8 | 724.3 | 504.1 | 1394.4 | | | | | | | | | | | |
| 3 CROPLAND | 156.1 | 156.1 | 148.2 | 167.9 | 156.1 | 156.1 | 156.1 | 98.3 | 0.0 | | | | | | | | | | | |
| 4 CROPLAND | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 0.0 | | | | | | | | | | | |
| 5 CROPLAND | 25.9 | 25.9 | 24.6 | 27.9 | 25.9 | 25.9 | 25.9 | 29.7 | 0.0 | | | | | | | | | | | |
| 6 CROPLAND | 1932.4 | 1437.4 | 1834.5 | 2079.0 | 1932.4 | 440.5 | 957.5 | 662.3 | 0.0 | | | | | | | | | | | |
| 7 VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.9 | 9.9 | | | | | | | | | | | | | |
| 8 GRASSLAND AND PASTURE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 59.3 | 59.3 | | | | | | | | | | | | | |
| 9 WOODLAND | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 39.5 | 39.5 | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | 2045.0 | 1521.4 | 1941.5 | 2200.1 | 2045.0 | 466.7 | 1013.7 | 721.6 | | | |
| PERCENT REDUCTION: | | | | | | | | | | 0.0 | 25.6 | 5.1 | -7.6 | 0.0 | 77.2 | 50.4 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| COUNTY: 11 WYANDOT, OHIO | | | | | | | | | | |
|---------------------------------------|--|--|-------------------------------|-----------------------------|---------------------------------------|---|---|-------|-----|--|
| AT PT. #7 | | | | | | | | | | |
| BASIN: RUCKEYE CREEK | | | | | | | | | | |
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER CROPPING (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WASH- SOIL LOSS S T FACTOR (TONS/ACRE) | | | |
| 1 CROPLAND | 63.4 | 49.4 | 61.5 | 57.8 | 51.9 | 4.5 | 26.3 | 9.9 | 9.9 | |
| 546 | 6.4 | 5.0 | 6.2 | 6.8 | 6.3 | .9 | 2.7 | 6.4 | 6.4 | |
| 2 CROPLAND | 348.2 | 348.2 | 337.4 | 372.3 | 340.1 | 46.9 | 140.6 | 139.0 | 0.0 | |
| 546 | 2.5 | 2.5 | 2.4 | 2.7 | 2.5 | .3 | 1.0 | 0.0 | 0.0 | |
| 5 CROPLAND | 13.1 | 13.1 | 12.6 | 14.3 | 12.7 | 13.1 | 13.1 | 9.3 | 9.0 | |
| 546 | 1.3 | 1.3 | 1.3 | 1.4 | 1.3 | 1.3 | 1.3 | 0.0 | 0.0 | |
| 1 CROPLAND | 429.7 | 410.7 | 411.5 | 454.1 | 414.7 | 68.5 | 180.0 | 158.2 | | |
| 546 | 2.7 | 2.6 | 2.6 | 2.9 | 2.6 | .4 | 1.2 | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | WATER AREA ONLY | 0.0 (ACRES) | | | | | | |
| | 0.0 | 0.0 (ACRES) | | | | | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | | | | | | | | |
| GRASSLAND AND PASTURE | 0.0 | 0.0 (TONS) | OTHER LAND USE AREA | 9.9 (ACRES) | | | | | | |
| | 0.0 | 0.0 (ACRES) | | | | | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | | | | | | | | |
| WOODLAND | .3 | .3 (TONS) | MISSING DATA | 0.0 (ACRES) | | | | | | |
| | 9.9 | 9.9 (ACRES) | | | | | | | | |
| | .03 | .03 (TONS/ACRE) | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | |
| | 425.0 | 411.0 | 411.8 | 454.4 | 415.0 | 68.8 | 180.3 | 168.1 | | |
| | 2.5 | 2.4 | 2.4 | 2.7 | 2.5 | .4 | 1.1 | | | |
| PERCENT REDUCTION: | | | | | | | | | | |
| | 0.0 | 3.3 | 3.1 | -6.9 | 2.4 | 83.9 | 56.5 | | | |

LAME CREEK WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| COUNTY: 62 ALL IN BASIN | | | | | | | | | |
|---------------------------------------|--|--|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|-------------------------|--|
| BASIN: BUCKEYE CREEK | | AT RT. 67 | | | | | | | |
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SJOJP LAND AREA (ACRES) | EXISTING SJOJP LOSS > 7 FACTOR (TONS/ACRE) |
| CROPLAND 1 | 7211.3 | 3319.0 | 6081.2 | 7663.9 | 7006.5 | 1021.8 | 3124.8 | 672.1 | 642.5 |
| 546 | 18.7 | 9.9 | 10.2 | 11.4 | 10.4 | 1.5 | 4.5 | | 31.3 |
| CROPLAND 2 | 6915.3 | 9861.7 | 6595.7 | 7372.0 | 6763.7 | 987.1 | 3086.4 | 1981.3 | 1116.9 |
| 546 | 3.7 | 2.6 | 3.5 | 3.9 | 3.6 | .5 | 1.5 | | 4.8 |
| CROPLAND 3 | 535.4 | 535.4 | 510.1 | 570.9 | 524.3 | 535.4 | 535.4 | 336.1 | 0.0 |
| 546 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.5 | | 0.0 |
| CROPLAND 4 | 26.6 | 26.6 | 25.4 | 28.2 | 25.8 | 11.5 | 11.5 | 39.5 | 0.0 |
| 545 | .7 | .7 | .6 | .7 | .7 | .3 | .3 | | 0.0 |
| CROPLAND 5 | 148.1 | 148.1 | 141.4 | 157.8 | 144.6 | 148.1 | 148.1 | 158.4 | 0.0 |
| 546 | 1.1 | 1.1 | 1.0 | 1.1 | 1.0 | 1.1 | 1.1 | | 0.0 |
| CROPLAND | 14836.7 | 8898.8 | 14153.8 | 15792.4 | 14462.9 | 2703.9 | 6825.2 | 3074.0 | |
| 546 | 4.8 | 2.9 | 4.6 | 5.1 | 4.7 | .9 | 2.2 | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 19.8 (ACRES) | | | | | |
| 546 | 0.0 | 0.0 (ACRES) | 0.0 (TONS/ACRE) | | | | | | |
| GRASSLAND AND PASTURE | 2.8 | 2.8 (TONS) | JATER LAND JSE AREA | 98.8 (ACRES) | | | | | |
| 546 | 19.8 | 19.8 (ACRES) | 0.14 (TONS/ACRE) | | | | | | |
| W208LAND | 11.7 | 11.7 (TONS) | MISSING DATA | 138.4 (ACRES) | | | | | |
| 546 | 227.3 | 227.3 (ACRES) | 0.05 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 15470.1 | 9216.4 | 14758.7 | 16446.0 | 15080.7 | 2431.7 | 7125.3 | 3459.3 | |
| PERCENT REDUCTION: | 4.5 | 2.7 | 4.3 | 4.4 | 4.4 | .8 | 2.1 | | |
| | 0.0 | 40.0 | 4.6 | -5.4 | 2.5 | 91.7 | 53.3 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : PAST MANAGEMENT PRACTICE SCENARIOS

Basin: SILVER CREEK CONFLUENCE W/ HONEY CR COUNTY: L2 CHAUTAUK, OHIO

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM TILLAGE REDUCTION (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WASH- GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
|--|--|---|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---------------------------------------|
| CROPLAND 1 | 6598.5 9.4 | 3598.4 5.0 | 6288.5 9.0 | 7102.4 11.0 | 6394.5 9.1 | 933.7 1.3 | 701.8 4.1 | 701.8 3.4 |
| CROPLAND 2 | 19340.7 4.6 | 12283.7 2.9 | 18454.2 4.4 | 20549.5 4.9 | 14776.6 4.4 | 2739.9 4.6 | 4240.3 2.0 | 3453.5 5.9 |
| CROPLAND 3 | 1123.5 1.6 | 1123.5 1.6 | 1072.0 1.5 | 1193.7 1.7 | 1190.7 1.6 | 1123.5 1.6 | 701.8 1.5 | 0.0 0.0 |
| CROPLAND 4 | 233.6 0.9 | 233.6 0.9 | 222.9 0.9 | 248.2 1.0 | 226.8 0.9 | 101.2 0.4 | 257.0 0.4 | 0.0 0.0 |
| CROPLAND 5 | 86.9 1.1 | 86.9 1.1 | 82.9 1.0 | 92.3 1.2 | 84.3 1.1 | 86.9 1.1 | 79.1 1.1 | 0.0 0.0 |
| CROPLAND | 27375.2 4.6 | 17236.6 2.9 | 26120.5 4.4 | 29086.1 4.9 | 26576.7 4.4 | 4945.2 0.8 | 12548.5 2.1 | 5940.0 |
| VINEYARDS AND ORCH. | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 89.0 (ACRES) | | | |
| GRASSLAND AND PASTURE | 9.9 0.9 | 9.9 (TONS) 0.9 (ACRES) | 9.9 (TONS) 0.9 (ACRES) | 9.9 (TONS) 0.9 (ACRES) | 257.0 (ACRES) | | | |
| WOODLAND | 49.3 662.2 0.7 | 49.3 (TONS) 662.2 (ACRES) | 49.3 (TONS) 662.2 (ACRES) | 49.3 (TONS) 662.2 (ACRES) | 69.2 (ACRES) | | | |
| SUMMARY TOTAL POTENTIAL GROSS FROSTION | 27719.7 4.1 | 17466.6 2.6 | 26442.9 3.9 | 29439.4 4.4 | 26903.9 4.0 | 5087.8 0.8 | 12729.9 1.3 | 6721.3 |
| PERCENT REDUCTION: | 0.0 | 37.0 | 4.5 | -6.2 | 2.9 | 81.6 | 54.1 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SILVER CREEK | | CONFLUENCE W/ HONEY CR | | | | COUNTY: 03 SENECA, J-110 | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------------------------------|---|---|--------------------------|--------------------------|----------------------------------|--|-----------------------------------|---------------------------------------|------------------------------------|--|--|-------------------------------|-------------------------------|---------------------------------------|---|-----------------------------------|---------------------------------------|------------------------------------|--|--|-------------------------------|-------------------------------|---------------------------------------|---|-----------------------------------|---------------------------------------|--------|
| LAND USE | EXISTING GROSS EROSION (TONS) | POT. LOSS TO T PLOWING AND EXISTING ONLY (TONS) | REDUCE SOIL LOSS TO T PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. SODJ LAND AREA (ACRES) | EXISTING SOIL LOSS > 7 FACTOR (ACRES) | EXISTING GROSS EROSION (TONS/ACRE) | POT. LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE) | REDUCE SOIL LOSS TO T PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. SODJ LAND AREA (ACRES) | EXISTING SOIL LOSS > 7 FACTOR (ACRES) | EXISTING GROSS EROSION (TONS/ACRE) | POT. LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE) | REDUCE SOIL LOSS TO T PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. SODJ LAND AREA (ACRES) | EXISTING SOIL LOSS > 7 FACTOR (ACRES) | |
| CROPLAND 1 | 1601.1 | 1467.6 | 1520.0 | 1722.7 | 1601.1 | 236.5 | 789.4 | 494.4 | 49.4 | 1601.1 | 1467.6 | 1520.0 | 1722.7 | 1601.1 | 236.5 | 789.4 | 494.4 | 49.4 | 49.4 | 1601.1 | 1467.6 | 1520.0 | 1722.7 | 1601.1 | 236.5 | 789.4 | 494.4 | 49.4 |
| SM6 | 3.6 | 3.3 | 3.4 | 3.9 | 3.6 | .5 | 1.5 | 7.7 | 7.7 | 3.6 | 3.3 | 3.4 | 3.9 | 3.6 | .5 | 1.5 | 7.7 | 7.7 | 7.7 | 3.6 | 3.3 | 3.4 | 3.9 | 3.6 | .5 | 1.5 | 7.7 | 7.7 |
| CROPLAND 2 | 18229.8 | 15098.8 | 17306.1 | 19613.5 | 18229.8 | 2692.1 | 8076.2 | 3258.4 | 593.1 | 18229.8 | 15098.8 | 17306.1 | 19613.5 | 18229.8 | 2692.1 | 8076.2 | 3258.4 | 593.1 | 593.1 | 18229.8 | 15098.8 | 17306.1 | 19613.5 | 18229.8 | 2692.1 | 8076.2 | 3258.4 | 593.1 |
| SM6 | 3.5 | 3.0 | 3.3 | 3.7 | 3.5 | .5 | 1.5 | 6.9 | 6.9 | 3.5 | 3.0 | 3.3 | 3.7 | 3.5 | .5 | 1.5 | 6.9 | 6.9 | 6.9 | 3.5 | 3.0 | 3.3 | 3.7 | 3.5 | .5 | 1.5 | 6.9 | 6.9 |
| CROPLAND 3 | 1018.4 | 1018.4 | 966.9 | 1095.8 | 1018.4 | 1018.4 | 1019.4 | 642.3 | 0.0 | 1018.4 | 1018.4 | 966.9 | 1095.8 | 1018.4 | 1018.4 | 1019.4 | 642.3 | 0.0 | 0.0 | 1018.4 | 1018.4 | 966.9 | 1095.8 | 1018.4 | 1018.4 | 1019.4 | 642.3 | 0.0 |
| SM6 | 1.4 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.6 | 0.0 | 0.0 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.6 | 0.0 | 0.0 |
| CROPLAND 4 | 38.2 | 38.2 | 36.2 | 41.1 | 38.2 | 16.9 | 16.3 | 49.4 | 0.0 | 38.2 | 38.2 | 36.2 | 41.1 | 38.2 | 16.9 | 16.3 | 49.4 | 0.0 | 0.0 | 38.2 | 38.2 | 36.2 | 41.1 | 38.2 | 16.9 | 16.3 | 49.4 | 0.0 |
| SM6 | .8 | .8 | .7 | .8 | .8 | .3 | .3 | 0.0 | 0.0 | .8 | .8 | .7 | .8 | .8 | .3 | .3 | 0.0 | 0.0 | 0.0 | .8 | .8 | .7 | .8 | .8 | .3 | .3 | 0.0 | 0.0 |
| CROPLAND 5 | 150.9 | 150.9 | 143.2 | 162.3 | 150.9 | 150.9 | 150.3 | 138.4 | 0.0 | 150.9 | 150.9 | 143.2 | 162.3 | 150.9 | 150.9 | 150.3 | 138.4 | 0.0 | 0.0 | 150.9 | 150.9 | 143.2 | 162.3 | 150.9 | 150.9 | 150.3 | 138.4 | 0.0 |
| SM6 | 1.1 | 1.1 | 1.0 | 1.2 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 1.1 | 1.1 | 1.0 | 1.2 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.0 | 1.2 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 |
| CROPLAND 8 | 48.2 | 48.2 | 38.1 | 43.2 | 48.2 | 17.9 | 17.9 | 39.5 | 0.0 | 48.2 | 48.2 | 38.1 | 43.2 | 48.2 | 17.9 | 17.9 | 39.5 | 0.0 | 0.0 | 48.2 | 48.2 | 38.1 | 43.2 | 48.2 | 17.9 | 17.9 | 39.5 | 0.0 |
| SM6 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .5 | .5 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .5 | .5 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .5 | .5 | 0.0 | 0.0 |
| CROPLAND 9 | 21077.8 | 18614.1 | 20010.5 | 22678.6 | 21077.8 | 4132.6 | 9389.5 | 6573.0 | 6573.0 | 21077.8 | 18614.1 | 20010.5 | 22678.6 | 21077.8 | 4132.6 | 9389.5 | 6573.0 | 6573.0 | 6573.0 | 21077.8 | 18614.1 | 20010.5 | 22678.6 | 21077.8 | 4132.6 | 9389.5 | 6573.0 | 6573.0 |
| SM6 | 3.2 | 2.8 | 3.0 | 3.5 | 3.2 | .6 | 1.5 | 1.5 | 1.5 | 3.2 | 2.8 | 3.0 | 3.5 | 3.2 | .6 | 1.5 | 1.5 | 1.5 | 1.5 | 3.2 | 2.8 | 3.0 | 3.5 | 3.2 | .6 | 1.5 | 1.5 | 1.5 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 79.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 79.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SM6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRASSLAND AND PASTURE | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 395.4 | 0.0 | 0.0 | 0.0 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 395.4 | 0.0 | 0.0 | 0.0 | 0.0 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 395.4 | 0.0 | 0.0 | 0.0 |
| SM6 | .02 | .02 | .02 | .02 | .02 | 0.0 | 0.0 | 0.0 | 0.0 | .02 | .02 | .02 | .02 | .02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .02 | .02 | .02 | .02 | .02 | 0.0 | 0.0 | 0.0 | 0.0 |
| WOODLAND | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 158.1 | 0.0 | 0.0 | 0.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 158.1 | 0.0 | 0.0 | 0.0 | 0.0 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 158.1 | 0.0 | 0.0 | 0.0 |
| SM6 | .05 | .05 | .05 | .05 | .05 | 0.0 | 0.0 | 0.0 | 0.0 | .05 | .05 | .05 | .05 | .05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .05 | .05 | .05 | .05 | .05 | 0.0 | 0.0 | 0.0 | 0.0 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | 21563.9 | 19050.9 | 20475.2 | 23196.8 | 21563.9 | 4279.1 | 9045.7 | 9045.7 | 21563.9 | 19050.9 | 20475.2 | 23196.8 | 21563.9 | 4279.1 | 9045.7 | 9045.7 | 9045.7 | 9045.7 | 21563.9 | 19050.9 | 20475.2 | 23196.8 | 21563.9 | 4279.1 | 9045.7 | 9045.7 | 9045.7 |
| PERCENT REDUCTION: | | 0.0 | 11.7 | 3.0 | -7.0 | 0.0 | 40.2 | 52.5 | 52.5 | 0.0 | 11.7 | 3.0 | -7.0 | 0.0 | 40.2 | 52.5 | 52.5 | 52.5 | 52.5 | 0.0 | 11.7 | 3.0 | -7.0 | 0.0 | 40.2 | 52.5 | 52.5 | 52.5 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SILVER CREEK | | CONFLUENCE W/ MONY CR | | COUNTY: 62 ALL IN BASIN | | | |
|---------------------------------------|---|--|---|--|---|--|---|
| LAND USE | EXISTING POTENTIAL SOIL SPRING LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING (TONS/ACRE) | WINTER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE) | SOIL WENT GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) (TONS/ACRE) |
| CROPLAND 1 | 8191.6 7.1 | 4976.5 6.3 | 7408.5 7.6 | 1170.1 1.0 | 3565.2 3.1 | 1106.5 | 751.2 0.3 |
| CROPLAND 2 | 37569.7 4.0 | 28142.5 3.0 | 46143.0 4.2 | 5432.0 0.6 | 16457.1 1.7 | 9498.7 | 4052.5 5.3 |
| CROPLAND 3 | 2141.9 1.6 | 2338.8 1.5 | 2289.5 1.7 | 2109.1 1.6 | 2141.9 1.5 | 1344.3 | 0.0 0.0 |
| CROPLAND 4 | 271.7 0.9 | 259.1 0.4 | 249.2 0.9 | 264.9 0.4 | 118.1 0.4 | 306.4 | 0.0 0.0 |
| CROPLAND 5 | 237.7 1.1 | 226.1 1.0 | 254.6 1.2 | 237.7 1.1 | 237.7 1.1 | 217.5 | 0.0 0.0 |
| CROPLAND 6 | 40.2 1.0 | 34.1 1.0 | 43.2 1.1 | 40.2 1.0 | 17.8 0.5 | 39.5 | 0.0 0.0 |
| CROPLAND 7 | 4052.6 3.9 | 35050.5 2.9 | 46130.9 3.7 | 51764.6 4.1 | 47654.4 3.8 | 12553.0 | |
| VINEYARDS AND ORCH. | 0.0 0.0 0.00 | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 158.0 (ACRES) | | | |
| GRASSLAND AND PASTURE | 1.3 29.7 0.64 | 1.3 (TONS) 29.7 (ACRES) 0.04 (TONS/ACRE) | OTHER LAND USE AREA (TONS/ACRE) | 652.4 (ACRES) | | | |
| WOODLAND | 111.2 1957.1 0.06 | 111.2 (TONS) 1957.1 (ACRES) 0.06 (TONS/ACRE) | MISSING DATA | 227.3 (ACRES) | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | |
| 49324.5 | 36525.2 | 46966.3 | 52688.1 | 44513.6 | 23004.4 | 14767.1 | |
| 3.3 | 2.5 | 3.2 | 3.6 | 3.3 | 1.5 | | |
| PERCENT REDUCTION: | | | | | | | |
| 0.0 | 25.9 | 4.4 | -6.4 | 1.6 | 61.0 | 53.4 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: SILVER CREEK | | COUNTY: 02 CRAWFORD, OHIO | | | | | | | | | | |
|---|--|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|---|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | DOWNSTREAM FROM MARSH | | FALL PLOWING ONLY | | WINTER COVER CROP | | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | | REDUCED TILLAGE: CHISEL P. 24 AREA (TONS/ACRE) | | EXISTING SOIL LOSS > T FACTOR (ACRES) (TONS/ACRE) |
| | | EXISTING LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE) | LOSS TO T PLOWING ONLY (TONS/ACRE) | EXISTING LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE) | LOSS TO T PLOWING ONLY (TONS/ACRE) | EXISTING LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE) | LOSS TO T PLOWING ONLY (TONS/ACRE) | EXISTING LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE) | LOSS TO T PLOWING ONLY (TONS/ACRE) | EXISTING LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE) | LOSS TO T PLOWING ONLY (TONS/ACRE) | |
| 1- 546 | 6590.5 9.4 | 3508.9 5.0 | 6200.5 9.0 | 7002.4 10.0 | 6398.3 9.1 | 933.7 1.3 | 2855.9 4.1 | 701.8 | 3459.5 0.0 | 4249.3 0.0 | 0.0 0.0 | 0.0 0.0 |
| 2- 546 | 19360.7 9.6 | 12283.7 2.9 | 18454.2 4.4 | 20549.5 4.8 | 18776.6 4.4 | 2739.9 2.3 | 8381.0 2.3 | 701.8 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 |
| 3- 546 | 1123.5 1.6 | 1123.5 1.6 | 1072.0 1.5 | 1193.7 1.7 | 1090.7 1.6 | 1123.5 1.6 | 1123.5 1.6 | 257.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 |
| 4- 546 | 233.6 0.9 | 233.6 0.9 | 222.9 0.9 | 248.2 1.0 | 226.6 0.9 | 101.2 0.4 | 101.2 0.4 | 79.1 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 |
| 5- 546 | 86.9 1.1 | 86.9 1.1 | 82.9 1.0 | 92.3 1.2 | 84.3 1.1 | 86.9 1.1 | 86.9 1.1 | 5980.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 |
| 6- 546 | 27375.2 4.6 | 17236.6 2.9 | 26120.5 4.4 | 29686.1 4.9 | 26576.7 4.4 | 4985.2 2.1 | 12548.3 2.1 | 5980.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 |
| 7- 546 | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) |
| 8- 546 | 9.9 0.9 | 9.9 (TONS) 0.9 (ACRES) | 9.9 (TONS) 0.9 (ACRES) | 9.9 (TONS) 0.9 (ACRES) | 9.9 (TONS) 0.9 (ACRES) | 9.9 (TONS) 0.9 (ACRES) | 9.9 (TONS) 0.9 (ACRES) | 9.9 (TONS) 0.9 (ACRES) | 9.9 (TONS) 0.9 (ACRES) | 9.9 (TONS) 0.9 (ACRES) | 9.9 (TONS) 0.9 (ACRES) | 9.9 (TONS) 0.9 (ACRES) |
| 9- 546 | 49.3 662.2 | 49.3 (TONS) 662.2 (ACRES) | 49.3 (TONS) 662.2 (ACRES) | 49.3 (TONS) 662.2 (ACRES) | 49.3 (TONS) 662.2 (ACRES) | 49.3 (TONS) 662.2 (ACRES) | 49.3 (TONS) 662.2 (ACRES) | 49.3 (TONS) 662.2 (ACRES) | 49.3 (TONS) 662.2 (ACRES) | 49.3 (TONS) 662.2 (ACRES) | 49.3 (TONS) 662.2 (ACRES) | 49.3 (TONS) 662.2 (ACRES) |
| 10- 546 | 27710.7 4.1 | 17466.6 2.6 | 26442.9 3.9 | 29439.4 4.4 | 26903.9 4.2 | 5087.8 0.8 | 12723.1 1.3 | 6721.3 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION 27710.7 17466.6 26442.9 29439.4 26903.9 5087.8 12723.1 6721.3 | | | | | | | | | | | | |
| PERCENT REDUCTION: 0.0 37.0 4.6 -6.2 2.5 81.6 54.1 | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIO

| BASIN: SILVER CREEK | | | | | | | | | | DOWNSTREAM FROM MAPSH | | | | | | | | | | COUNTY: CATTARAUGUS, NY | | | | | | | | | |
|---------------------------------------|--|---|-------------------|----------------------------------|-----------------|---|--------|-------------------------------|--------|--------------------------|--------|---------------------------------------|--------|-----------------------------|--------|-------------------------------------|--------|--------------------------------|--------|-------------------------|--|--|--|--|--|--|--|--|--|
| LAND USE | | EXISTING POTENTIAL GROSS EROSION AND FILLING ONLY (TONS/ACRE) | | LOSS TO FILLING ONLY (TONS/ACRE) | | EXISTING POTENTIAL GROSS EROSION AND FILLING ONLY (TONS/ACRE) | | FALL PLOWING ONLY (TONS/ACRE) | | WINTER COVER (TONS/ACRE) | | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | | REDUCED TILLAGE (TONS/ACRE) | | SOIL MOIST. GROUP LAND AREA (ACRES) | | EXISTING SOIL LOSS (TONS/ACRE) | | | | | | | | | | | |
| CROPLAND 1 | | 211.9 | 98.8 | 201.2 | 228.9 | 211.9 | 31.3 | 93.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | | | | | | | | | |
| SW | | 10.7 | 5.0 | 10.2 | 11.5 | 10.7 | 1.6 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | | | | | | | | | |
| CROPLAND 2 | | 8628.4 | 4094.7 | 4191.6 | 4283.8 | 4628.4 | 1274.2 | 3822.7 | 2332.7 | 2332.7 | 2332.7 | 2332.7 | 2332.7 | 2332.7 | 2332.7 | 2332.7 | 2332.7 | 2332.7 | 2332.7 | 2332.7 | | | | | | | | | |
| SW | | 3.7 | 3.5 | 3.5 | 4.0 | 3.7 | .5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | | | | | | | | | |
| CROPLAND 3 | | 439.6 | 439.6 | 417.4 | 473.0 | 439.6 | 439.6 | 439.6 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | | | | | | | | | |
| SW | | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | | | | | | | | | |
| CROPLAND 4 | | 8.3 | 8.3 | 7.9 | 9.0 | 8.3 | 3.7 | 3.7 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | | | | | | | | | |
| SW | | .8 | .8 | .8 | .9 | .8 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | .4 | | | | | | | | | |
| CROPLAND 5 | | 118.5 | 118.5 | 112.5 | 127.5 | 118.5 | 118.5 | 118.5 | 108.7 | 108.7 | 108.7 | 108.7 | 108.7 | 108.7 | 108.7 | 108.7 | 108.7 | 108.7 | 108.7 | 108.7 | | | | | | | | | |
| SW | | 1.1 | 1.1 | 1.0 | 1.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | | | | | | | | | |
| CROPLAND 6 | | 9406.7 | 8749.9 | 8930.6 | 10121.3 | 9406.7 | 1867.3 | 4479.4 | 2197.3 | 2197.3 | 2197.3 | 2197.3 | 2197.3 | 2197.3 | 2197.3 | 2197.3 | 2197.3 | 2197.3 | 2197.3 | 2197.3 | | | | | | | | | |
| SW | | 3.4 | 3.2 | 3.2 | 3.7 | 3.4 | .7 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | | | | | | | | | |
| VINEYARDS AND ORCH. | | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 0.0 (TONS/ACRE) | 9.9 (ACRES) | | | | | | | | | | | | | | | | | | | | | | | |
| BRASSLAND AND PASTURE | | 0.0 | 0.0 (TONS) | OTHER LAND USE AREA | 148.3 (ACRES) | | | | | | | | | | | | | | | | | | | | | | | | |
| WOODLAND | | 23.7 | 23.7 (TONS) | MISSING DATA | 9.9 (ACRES) | | | | | | | | | | | | | | | | | | | | | | | | |
| SW | | 523.9 | 523.9 (TONS/ACRE) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SW | | .05 | .05 (TONS/ACRE) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | 9458.9 | 8800.1 | 8981.4 | 10175.7 | 9458.9 | 1896.7 | 4515.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 | 3281.7 | | | | | | | | | |
| SW | | 2.9 | 2.7 | 2.7 | 3.1 | 2.9 | .6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | | | | | | | | | |
| PERCENT REDUCTION: | | 8.0 | 7.0 | 5.0 | -7.6 | 0.0 | 79.9 | 52.3 | | | | | | | | | | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SILVER CREEK | | DOWNSTREAM FROM MARSH | | COUNTY: 42 ALL IN BASIN | | U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT | |
|---------------------------------------|--|--------------------------|--------------------------|----------------------------------|---|--|---|
| LAND USE | EXISTING POT-REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE CHISEL PLOW AREA (TONS) | SOIL MGMT. 343UP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) |
| CROPLAND 1 | 6882.5 | 3607.7 | 6489.7 | 7230.5 | 6610.2 | 965.0 | 2943.3 |
| SWG | 9.4 | 5.0 | 9.0 | 10.0 | 9.2 | 1.3 | 4.1 |
| CROPLAND 2 | 27969.1 | 20368.4 | 26645.8 | 29833.3 | 27405.0 | 4014.2 | 12203.7 |
| SWG | 4.3 | 3.1 | 4.1 | 4.5 | 4.2 | .6 | 1.3 |
| CROPLAND 3 | 1563.1 | 1563.1 | 1489.4 | 1666.7 | 1530.3 | 1563.1 | 1563.1 |
| SWG | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.5 |
| CROPLAND 4 | 241.9 | 241.9 | 230.8 | 257.2 | 235.1 | 104.5 | 104.5 |
| SWG | .9 | .9 | .9 | 1.0 | .9 | .4 | .4 |
| CROPLAND 5 | 205.4 | 205.4 | 195.4 | 219.6 | 202.9 | 205.4 | 205.4 |
| SWG | 1.1 | 1.1 | 1.0 | 1.2 | 1.1 | 1.1 | 1.1 |
| CROPLAND 6 | 36782.0 | 25986.5 | 35051.1 | 39207.5 | 35393.5 | 6452.6 | 17026.9 |
| SWG | 4.2 | 3.0 | 4.0 | 4.5 | 4.1 | .8 | 2.3 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) |
| BRASSLAND AND PASTURE | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) |
| WOODLAND | 73.0 | 73.0 (TONS) | 73.0 (TONS) | 73.0 (TONS) | 73.0 (TONS) | 73.0 (TONS) | 73.0 (TONS) |
| SWG | 1186.1 | 1186.1 (ACRES) | 1186.1 (ACRES) | 1186.1 (ACRES) | 1186.1 (ACRES) | 1186.1 (ACRES) | 1186.1 (ACRES) |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 37149.7 | 26268.1 | 35405.0 | 39594.5 | 36344.6 | 6941.7 | 17237.1 |
| PERCENT REDUCTIONS: | 0.0 | 29.3 | 4.7 | -6.6 | 2.2 | 81.2 | 53.6 |

C-JUNTY: 02 CRAWFORD, OHIO

3421M: SILVER CREEK

UPSTEAD FROM WASH

C-JUNTY: v2 C43VF3RD, ON10

| BASIN: SILVER CREEK | | | | | | | | | |
|--|---|--|-------------------------------|--------------------------|---------------------------------------|-----------------------------|------------------------------------|---|--|
| LAND USE | EXISTING POT. REDUCED LOSS TO CROSS EROSION (TONS/ACRE) | EXISTING POT. REDUCED LOSS TO CROSS EROSION ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL REBMT. 3330 LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | |
| | | | | | | | | | |
| 1 CROPLAND 1 S46 | 632.8 9.3 | 345.5 5.3 | 6134.0 4.4 | 6834.7 9.9 | 6245.2 4.0 | 2181.5 4.9 | 591.3 9.3 | 691.9 | |
| 2 CROPLAND 2 S46 | 1756.9 4.8 | 1075.7 2.9 | 16764.4 4.6 | 14667.4 5.1 | 17057.5 4.6 | 7613.5 2.1 | 3676.3 5.1 | 3172.8 | |
| 3 CROPLAND 3 S46 | 997.0 1.6 | 947.0 1.6 | 451.1 1.5 | 1059.4 1.7 | 968.0 1.6 | 397.3 1.6 | 522.7 1.6 | 0.0 | |
| 4 CROPLAND 4 S46 | 226.9 .9 | 226.9 .9 | 216.5 .9 | 241.1 1.0 | 220.3 .4 | 98.3 .4 | 247.1 .4 | 0.0 | |
| 5 CROPLAND 5 S46 | 46.9 1.1 | 46.9 1.1 | 42.9 1.0 | 92.3 1.2 | 84.3 1.1 | 85.3 1.1 | 79.1 1.1 | 0.0 | |
| 6 CROPLAND 6 S46 | 25313.3 4.8 | 15526.0 2.9 | 24153.1 4.5 | 26495.5 5.1 | 24575.1 4.6 | 11583.3 2.2 | 5317.7 2.2 | 5317.7 | |
| 7 WETLANDS AND ORCH. | 0.0 0.0 0.00 | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | JATER AREA ONLY | | 49.0 (ACRES) | | | | |
| 8 GRASSLAND AND PASTURE | 9.9 .09 | 9.9 (TONS) .09 (ACRES) .09 (TONS/ACRE) | OTHER LAND USE AREA | | 247.1 (ACRES) | | | | |
| 9 WOODLAND | 42.5 543.6 | 42.5 (TONS) 543.6 (ACRES) | MISSING DATA | | 39.5 (ACRES) | | | | |
| 10 SUMMARY TOTAL POTENTIAL GROSS EROSION | 25527.3 4.3 | 15674.1 2.7 | 24359.3 4.1 | 27120.1 4.6 | 24784.1 4.2 | 11704.9 2.0 | 5910.7 2.0 | 5910.7 | |
| 11 PERCENT REDUCTION: | 8.0 | 38.6 | 4.6 | -6.2 | 2.9 | 81.8 | 54.1 | 54.1 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SILVER CREEK | | UPSTREAM FROM MARSH | | | | | | | | | | COUNTY: 03 SENECA, OHIO | |
|---------------------|------------------------------------|-------------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|-----------------------------|-----------------------------|-------------------------------|---|--|-------------------------|--|
| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | POT. LOSS TO T. PLOWING (TONS/ACRE) | SOIL SPRING LOSS (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROPS (TONS/ACRE) | REDUCTION TILLAGE (TONS/ACRE) | MAXIMUM TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL WENT. GROUP LAND (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | | | |
| 1 | 155.7 | 99.4 | 167.8 | 167.5 | 155.7 | 23.0 | 69.0 | 9.3 | | 9.3 | | | |
| 2 | 15.7 | 5.0 | 14.9 | 14.9 | 15.7 | 2.3 | 7.3 | | | 15.7 | | | |
| 3 | 4974.0 | 4508.7 | 4722.9 | 5352.6 | 4974.0 | 734.7 | 2204.0 | 1176.2 | | 118.6 | | | |
| 4 | 4.2 | 3.0 | 4.0 | 4.6 | 4.2 | .6 | 1.3 | | | 6.9 | | | |
| 5 | 126.2 | 126.2 | 119.8 | 135.8 | 126.2 | 126.2 | 126.2 | 79.1 | | 0.0 | | | |
| 6 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.6 | | | 0.0 | | | |
| 7 | 32.3 | 32.3 | 30.7 | 34.8 | 32.3 | 32.3 | 32.3 | 29.7 | | 0.0 | | | |
| 8 | 1.1 | 1.1 | 1.0 | 1.2 | 1.1 | 1.1 | 1.1 | | | 0.0 | | | |
| 9 | 5289.0 | 4716.6 | 5021.2 | 5690.7 | 5289.0 | 916.2 | 2431.5 | 1294.9 | | | | | |
| 10 | 4.1 | 3.6 | 3.9 | 4.4 | 4.1 | .7 | 1.9 | | | | | | |
| 11 | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | | | | |
| 12 | 0.00 | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | | | | | | | | |
| 13 | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | | | | |
| 14 | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | | | | |
| 15 | 0.00 | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | | | | | | | | |
| 16 | 6.0 | 6.0 (TONS) | MISSING DATA | MISSING DATA | 0.0 (ACRES) | | | | | | | | |
| 17 | 130.4 | 130.4 (ACRES) | | | | | | | | | | | |
| 18 | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | | | | |
| 19 | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | | | | |
| 20 | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | | | | |
| 21 | 5289.0 | 4722.6 | 5027.2 | 5696.7 | 5289.0 | 922.2 | 2437.5 | 1433.3 | | | | | |
| 22 | 3.7 | 3.3 | 3.5 | 4.8 | 3.7 | .6 | 1.7 | | | | | | |
| 23 | 0.0 | 10.5 | 5.1 | -7.5 | 0.0 | 82.6 | 54.0 | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : WEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: SILVER CREEK | | UPSTREAM FROM MARSH COUNTY: 62 ALL IN MARSH | | | | | | | | | |
|---------------------------------------|--|---|-------------------------------|---------------------------------------|--|-----------------------------------|--|--------|---------------|-----|--|
| LAND USE | EXISTING POT. REDUCE SOIL LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM TILLAGE REDUCTION (TONS/ACRE) | REDUCED TILLAGE: CHISEL PL/DJ AREA (TONS/ACRE) | SOIL WGT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS S.F. FACTOR (ACRES) | | | | |
| CROPLAND 1 SAC | 6588.6 9.4 | 3508.9 5.0 | 4285.4 9.0 | 702.9 10.3 | 6400.9 9.1 | 930.3 1.3 | 2856.5 1.1 | 701.9 | 101.0 | 9.4 | |
| CROPLAND 2 SAC | 22544.5 4.6 | 15264.4 3.1 | 21487.4 6.4 | 24020.5 4.9 | 22032.1 4.5 | 3223.7 0.7 | 9017.6 2.3 | 4053.1 | 3291.4 5.2 | | |
| CROPLAND 3 SAC | 1123.2 1.6 | 1123.2 1.6 | 1071.1 1.3 | 1195.1 1.7 | 1094.1 1.6 | 1123.2 1.6 | 1123.2 1.5 | 701.9 | 0.0 | 0.0 | |
| CROPLAND 4 SAC | 226.9 0.9 | 226.9 0.9 | 216.5 0.9 | 241.1 1.0 | 220.3 0.9 | 98.3 0.4 | 98.3 0.4 | 247.1 | 0.0 | 0.0 | |
| CROPLAND 5 SAC | 119.2 1.1 | 119.2 1.1 | 113.6 1.0 | 127.1 1.2 | 116.6 1.1 | 119.2 1.1 | 119.2 1.1 | 100.7 | 0.0 | 0.0 | |
| CROPLAND | 30602.4 4.6 | 20242.6 3.1 | 29179.4 6.4 | 32586.2 4.9 | 29864.0 4.5 | 5490.7 0.8 | 14016.7 2.1 | 6612.5 | | | |
| VINEYARDS AND ORCH. | 0.0 0.00 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS/ACRE) 0.00 (TONS/ACRE) | 0.0 (ACRES) | | | | | |
| GRASSLAND AND PASTURE | 9.9 0.9 | 9.9 (TONS) 0.9 (ACRES) | 9.9 (TONS) 0.9 (ACRES) | 9.9 (TONS) 0.9 (ACRES) | 276.4 (ACRES) | | | | | | |
| WOODLAND | 44.5 642.0 | 44.5 (TONS) 642.0 (ACRES) | 44.5 (TONS) 642.0 (ACRES) | 44.5 (TONS) 642.0 (ACRES) | 39.5 (ACRES) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 30817.6 4.2 | 20401.7 2.9 | 29381.8 6.0 | 32812.1 4.5 | 30075.2 4.1 | 9570.1 0.8 | 14140.4 1.9 | 7343.7 | | | |
| PERCENT REDUCTION: | 0.0 | 33.8 | 4.7 | -6.5 | 2.4 | 81.9 | 54.1 | | | | |

LARE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: AICHOLZ DITCH HONEY CREEK-COUNTY 40-49 COUNTY: 22 CRAWFORD, OHIO

| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) |
|---------------------------------------|---|--|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|-----------------------------------|
| BAROPLAND 2 | 16.0 | 16.0 | 15.2 | 17.0 | 15.5 | 6.3 | 9.3 | 0.0 |
| 545 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | .7 | | 0.0 |
| BAROPLAND | 16.0 | 16.0 | 15.2 | 17.0 | 15.5 | 6.3 | 9.3 | |
| | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | .7 | | |
| LIVEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | |
| | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | |
| GRASSLAND AND PASTURE | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | |
| | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | |
| WOODLAND | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | |
| | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 16.0 | 16.0 | 15.2 | 17.0 | 15.5 | 6.3 | 9.3 | |
| | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | .7 | | |
| PERCENT REDUCTION: | 0.0 | 0.0 | 5.0 | -6.2 | 3.1 | 56.3 | | |

Lake Erie Wastewater Management Study U.S. Army Corps of Engineers, Buffalo District
Land Management Alternatives: Best Management Practice Scenarios

Basin: Richolz Ditch Wmlev Creek County Rd. 49 County: 33 Seneca, Ohio

| Land Use | Existing Gross Erosion (tons/acre) | Existing Pot. Reduce Loss to T. Ploing Only (tons/acre) | Fall Ploing Only (tons/acre) | Winter Cover Crop (tons/acre) | Maximum Reduction Tillage (tons/acre) | Reduced Tillage (tons/acre) | Soil Mgmt. Group Land (acres) | Existing Soil Loss Factor (acres) |
|---------------------------------------|------------------------------------|---|------------------------------|-------------------------------|---------------------------------------|-----------------------------|-------------------------------|-----------------------------------|
| Barmland 1 | 59.0 | 59.0 | 56.0 | 63.5 | 59.0 | 26.1 | 49.4 | 0.0 |
| Barmland 2 | 1.2 | 1.2 | 1.1 | 1.5 | 1.2 | .5 | | 0.0 |
| Barmland 3 | 17411.8 | 16479.8 | 16530.2 | 18749.5 | 17411.8 | 7714.1 | 6375.3 | 237.2 |
| Barmland 4 | 2.7 | 2.6 | 2.6 | 2.9 | 2.7 | 1.2 | | 6.9 |
| Barmland 5 | 2890.0 | 2890.0 | 2743.7 | 3109.5 | 2890.0 | 2890.0 | 1828.6 | 0.0 |
| Barmland 6 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.5 | | 0.0 |
| Barmland 7 | 240.2 | 240.2 | 228.1 | 258.5 | 240.2 | 106.4 | 286.6 | 0.0 |
| Barmland 8 | .8 | .8 | .6 | .9 | .8 | .4 | | 0.0 |
| Barmland 9 | 10.4 | 10.4 | 10.2 | 11.5 | 10.4 | 10.4 | 9.3 | 0.0 |
| Barmland 10 | 1.1 | 1.1 | 1.0 | 1.2 | 1.1 | 1.1 | | 0.0 |
| Barmland 11 | 40.2 | 40.2 | 38.1 | 43.2 | 40.2 | 17.4 | 39.5 | 0.0 |
| Barmland 12 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .5 | | 0.0 |
| Barmland 13 | 20652.0 | 19720.0 | 19606.3 | 22220.6 | 20652.0 | 5605.1 | 9889.3 | |
| Barmland 14 | 2.4 | 2.3 | 2.3 | 2.6 | 2.4 | 1.3 | | |
| Vineyards and Orch. | 0.0 | 0.0 (tons) | 0.0 (acres) | 0.0 (acres) | 39.5 (acres) | | | |
| Barmland and Pasture | 1.6 | 1.6 (tons) | 1.6 (acres) | 1.6 (acres) | 484.3 (acres) | | | |
| Barmland | 79.1 | 79.1 (acres) | 79.1 (acres) | 79.1 (acres) | 484.3 (acres) | | | |
| Barmland | 38.9 | 38.9 (tons) | 38.9 (acres) | 38.9 (acres) | 316.3 (acres) | | | |
| Barmland | 899.5 | 899.5 (tons) | 899.5 (acres) | 899.5 (acres) | 316.3 (acres) | | | |
| Barmland | .84 | .84 (tons) | .84 (acres) | .84 (acres) | 316.3 (acres) | | | |
| Summary Total Potential Gross Erosion | 21376.6 | 20413.8 | 20296.3 | 22997.0 | 21376.6 | 5832.2 | 11162.3 | 9884.2 |
| Percent Reduction: | 2.2 | 2.1 | 2.1 | 2.3 | 2.2 | .6 | 1.1 | |
| | 0.0 | 4.5 | 5.1 | -7.6 | 0.0 | 72.7 | 47.9 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: AICHOLZ DITCH MONEY CREEK, COUNTY RD. 49 COUNTY: 62 ALL IN BASIN

| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | POT. LOSS TO T. PLOUING (TONS/ACRE) | FALL PLOUING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL P. 3/4 AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING > T FACTOR (TONS/ACRE) |
|---------------------------------------|------------------------------------|-------------------------------------|---------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---------------------------------|
| CROPLAND 1 | 59.0 | 59.0 | 56.0 | 63.5 | 99.0 | 26.1 | 49.4 | 0.0 |
| 545 | 1.2 | 1.2 | 1.1 | 1.3 | 1.2 | .3 | | 0.0 |
| CROPLAND 2 | 17427.8 | 16495.7 | 16751.2 | 17427.3 | 2573.6 | 7721.0 | 6385.2 | 237.2 |
| 546 | 2.7 | 2.6 | 2.6 | 2.5 | .4 | 1.2 | | 6.9 |
| CROPLAND 3 | 2890.0 | 2890.0 | 2743.7 | 3109.5 | 2890.0 | 2890.0 | 1828.5 | 0.0 |
| 546 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | | 0.0 |
| CROPLAND 4 | 240.2 | 240.2 | 228.1 | 258.5 | 240.2 | 106.4 | 286.6 | 0.0 |
| 546 | .8 | .8 | .6 | .3 | .8 | .4 | | 0.0 |
| CROPLAND 5 | 10.8 | 10.8 | 10.2 | 11.6 | 10.8 | 10.8 | 9.3 | 0.0 |
| 546 | 1.1 | 1.1 | 1.0 | 1.2 | 1.1 | 1.1 | | 0.0 |
| CROPLAND 6 | 40.2 | 40.2 | 30.1 | 43.2 | 40.2 | 17.8 | 39.5 | 0.0 |
| 546 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .5 | | 0.0 |
| CROPLAND | 20668.0 | 19135.9 | 19621.5 | 22237.5 | 20661.5 | 10772.1 | 5599.2 | |
| | 2.4 | 2.3 | 2.3 | 2.6 | 2.4 | .7 | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 4ATER AREA ONLY (TONS/ACRE) | 39.5 (ACRES) | | | | |
| | 0.0 | 0.0 (ACRES) | | | | | | |
| | 0.0 | 0.0 (TONS/ACRE) | | | | | | |
| GRASSLAND AND PASTURE | 1.6 | 1.6 (TONS) | OTHER LAND USE AREA (TONS/ACRE) | 444.3 (ACRES) | | | | |
| | 79.1 | 79.1 (ACRES) | | | | | | |
| | .02 | .02 (TONS/ACRE) | | | | | | |
| WOODLAND | 33.9 | 38.9 (TONS) | MISSING DATA | 316.3 (ACRES) | | | | |
| | 899.5 | 899.5 (ACRES) | | | | | | |
| | .04 | .04 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 21392.4 | 20429.5 | 20311.3 | 23013.7 | 21391.5 | 11163.7 | 9894.1 | |
| | 2.2 | 2.1 | 2.1 | 2.3 | 2.2 | .6 | | |
| PERCENT REDUCTION: | 0.0 | 4.5 | 5.1 | -7.5 | .0 | 72.7 | 47.8 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: TEST MANAGEMENT PRACTICE SCENARIOS

BASIN: PROKENNIFE CREEK COUNTY LINE ROAD COUNTY: 02 CRAWFORD, OHIO

| LAND USE | EXISTING POT. REDUCE SOIL SPRING GROSS LOSS TO PLOWING EROSION AND EXISTING ONLY (TONS) (TNS) | FALL PLOWING ONLY (TNS) (TNS) | WINTER COVER (TNS) (TNS) | MAXIMUM REDUCTION TILLAGE (TNS) (TNS) | REDUCED TILLAGE CHISEL PLOW AREA (TNS) (TNS) | SOIL MGMT. STEEP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) |
|---------------------------------------|--|----------------------------------|-----------------------------|--|---|---|--|
| 1. CROPLAND | 4931.0 | 3845.0 | 4705.0 | 5239.2 | 4787.2 | 698.6 | 780.9 |
| 345 | 6.3 | 4.9 | 6.0 | 6.7 | 6.1 | .9 | 6.3 |
| 2. CROPLAND | 15226.5 | 12417.4 | 14526.4 | 16178.1 | 14782.4 | 2157.1 | 4319.4 |
| 346 | 3.5 | 2.9 | 3.4 | 3.7 | 3.4 | .5 | 3.5 |
| 3. CROPLAND | 1625.1 | 1625.1 | 1550.7 | 1726.7 | 1577.7 | 1625.1 | 988.4 |
| 345 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.6 |
| 4. CROPLAND | 917.8 | 917.8 | 875.7 | 975.2 | 891.0 | 397.7 | 998.5 |
| 346 | .9 | .9 | .9 | 1.0 | .9 | .4 | .9 |
| 5. CROPLAND | 196.4 | 196.4 | 187.4 | 208.7 | 190.7 | 196.4 | 177.9 |
| 345 | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | 1.1 | 1.1 |
| 6. CROPLAND | 22896.8 | 19001.7 | 21447.4 | 24327.9 | 22229.0 | 5074.9 | 7264.9 |
| 345 | 3.2 | 2.6 | 3.0 | 3.3 | 3.1 | .7 | 3.2 |
| 7. VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 79.1 (ACRES) | | | |
| 345 | 0.0 | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | | | | |
| 8. GRASSLAND AND PASTURE | 3.8 | 3.8 (TONS) | OTHER LAND 79.1 (ACRES) | 543.6 (ACRES) | | | |
| 345 | .05 | .05 (TONS/ACRE) | | | | | |
| 9. WOODLAND | 43.8 | 43.8 (TONS) | MISSING DATA | 197.7 (ACRES) | | | |
| 345 | .06 | .06 (TONS/ACRE) | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 23508.2 | 19517.4 | 22433.0 | 24974.5 | 22824.0 | 5248.4 | 8243.5 |
| PERCENT REDUCTION: | 0.0 | 17.0 | 4.5 | -6.2 | 2.9 | 77.7 | 52.1 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: BROCKWATER CREEK | | COUNTY LINE ROAD | | COUNTY: OS SENECA, OHIO | | | | | | | | | | | | | | | | | |
|-------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | |
| 1 | 104.0 | 61.2 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | |
| 2 | 6522.3 | 6372.8 | 6192.1 | 6192.1 | 6192.1 | 6192.1 | 6192.1 | 6192.1 | 6192.1 | 6192.1 | 6192.1 | 6192.1 | 6192.1 | 6192.1 | 6192.1 | 6192.1 | 6192.1 | 6192.1 | 6192.1 | 6192.1 | |
| 3 | 780.4 | 780.4 | 740.9 | 740.9 | 740.9 | 740.9 | 740.9 | 740.9 | 740.9 | 740.9 | 740.9 | 740.9 | 740.9 | 740.9 | 740.9 | 740.9 | 740.9 | 740.9 | 740.9 | 740.9 | |
| 4 | 141.9 | 141.9 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | 134.7 | |
| 5 | 10.8 | 10.8 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | |
| 6 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | |
| 7 | 7559.4 | 7367.1 | 7176.6 | 7176.6 | 7176.6 | 7176.6 | 7176.6 | 7176.6 | 7176.6 | 7176.6 | 7176.6 | 7176.6 | 7176.6 | 7176.6 | 7176.6 | 7176.6 | 7176.6 | 7176.6 | 7176.6 | 7176.6 | |
| 8 | 2.8 | 2.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | |
| 9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 11 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | |
| 12 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | |
| 13 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | |
| 14 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | |
| 15 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | 434.9 | |
| 16 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | |
| 17 | 7631.2 | 7437.7 | 7246.1 | 7246.1 | 7246.1 | 7246.1 | 7246.1 | 7246.1 | 7246.1 | 7246.1 | 7246.1 | 7246.1 | 7246.1 | 7246.1 | 7246.1 | 7246.1 | 7246.1 | 7246.1 | 7246.1 | 7246.1 | |
| 18 | 2.4 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | |
| 19 | 0.0 | 2.5 | 5.0 | -7.5 | 0.0 | 75.5 | 0.0 | 75.5 | 0.0 | 75.5 | 0.0 | 75.5 | 0.0 | 75.5 | 0.0 | 75.5 | 0.0 | 75.5 | 0.0 | 75.5 | |
| 20 | 3212.4 | 3039.3 | 1869.0 | 1869.0 | 1869.0 | 1869.0 | 1869.0 | 1869.0 | 1869.0 | 1869.0 | 1869.0 | 1869.0 | 1869.0 | 1869.0 | 1869.0 | 1869.0 | 1869.0 | 1869.0 | 1869.0 | 1869.0 | |
| 21 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | |
| 22 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: PROCKMIFE CREEK COUNTY: LIVINGSTON COUNTY, OHIO

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO TILLAGE (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL MGMT. 3000 LBS AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) |
|---------------------------------------|---|--------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------|--|--|
| 1 CROPLAND | 787.5 | 395.4 | 750.1 | 824.8 | 108.9 | 329.9 | 79.1 | 79.1 |
| 2 CROPLAND | 1939.6 | 908.3 | 900.3 | 1088.9 | 143.8 | 435.5 | 326.2 | 326.2 |
| 3 CROPLAND | 16.7 | 16.7 | 15.9 | 17.5 | 16.7 | 16.7 | 9.9 | 9.9 |
| 4 CROPLAND | 177.0 | 177.0 | 168.7 | 145.4 | 74.2 | 74.2 | 119.5 | 119.5 |
| 5 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 6 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 7 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 8 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 9 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 10 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 11 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 12 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 13 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 14 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 15 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 16 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 17 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 18 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 19 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 20 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 21 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 22 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 23 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 24 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 25 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 26 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 27 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 28 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 29 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 30 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 31 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 32 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 33 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 34 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 35 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 36 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 37 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 38 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 39 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 40 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 41 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 42 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 43 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 44 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 45 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 46 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 47 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 48 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 49 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 50 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 51 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 52 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 53 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 54 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 55 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 56 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 57 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 58 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 59 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 60 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 61 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 62 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 63 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 64 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 65 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 66 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 67 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 68 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 69 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 70 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 71 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 72 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 73 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 74 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 75 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 76 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 77 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 78 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 79 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 80 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 81 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 82 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 83 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 84 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 85 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 86 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 87 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 88 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 89 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 90 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 91 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 92 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 93 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 94 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 95 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 96 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 97 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 98 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 99 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| 100 CROPLAND | 45.5 | 45.5 | 43.3 | 47.6 | 45.5 | 45.5 | 49.4 | 49.4 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 2144.2 | 1711.9 | 2061.9 | 2266.4 | 414.0 | 949.1 | 711.7 | |
| PERCENT REDUCTION: | 0.0 | 20.9 | 4.7 | -4.7 | 80.9 | 55.1 | | |

| 334343: MADHEMANIFE CREEK | | COUNTY LINE ROAD | | | | COUNTY: 62 ALL IN BASIN | | | | EXISTING SOIL LOSS % FACTOR (ACRES) | | | |
|---------------------------------------|--|-----------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|---|---|---|--|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS) | LOSS TO AND EXISTING (TONS) | SOIL PLOWING ONLY (TONS) | SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE CHISEL PLOW (TONS) | SOIL MGMT. GROUP LAND AREA (ACRES) | | | | |
| 3346 1 | 5822.5 | 4301.5 | 5553.8 | 6175.9 | 5644.4 | 822.9 | 2512.3 | 379.7 | 869.8 | | | | |
| 3346 2 | 22788.4 | 19788.5 | 21711.0 | 24294.8 | 22299.1 | 3244.1 | 9923.4 | 6591.5 | 3291.4 | | | | |
| 3346 3 | 2422.2 | 2422.2 | 2307.4 | 2563.8 | 2374.0 | 2422.2 | 2422.2 | 1492.5 | 0.0 | | | | |
| 3346 4 | 1236.7 | 1236.7 | 1179.1 | 1313.3 | 1202.3 | 534.7 | 534.7 | 1284.9 | 0.0 | | | | |
| 3346 5 | 252.7 | 252.7 | 241.0 | 267.9 | 245.0 | 252.7 | 252.7 | 237.2 | 0.0 | | | | |
| 3346 6 | 3252.5 | 2800.6 | 3092.3 | 34625.7 | 31764.1 | 7296.6 | 15645.9 | 18585.9 | 8.0 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 177.9 | (ACRES) | | | | | | | |
| GRASSLAND AND PASTURE | 5.3 | 5.3 | 5.3 | 741.5 | 741.5 | (ACRES) | | | | | | | |
| WOODLAND | 75.2 | 75.2 | 75.2 | 247.1 | 247.1 | (ACRES) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 33278.5 | 28663.7 | 31716.4 | 35425.0 | 32534.9 | 7529.9 | 16052.3 | 12177.2 | 0.0 | | | | |
| PERCENT REDUCTION: | 0.0 | 13.9 | 4.7 | -6.5 | 2.2 | 77.4 | 51.3 | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

Basin: TRIBUTARY MONEY CREEK P-1. NORTH AT SCOTT ROAD COUNTY: 22 CRAWFORD, OHIO ALL IN BASIN

| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING (TONS) | WINTER COVER (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOU AREA (TONS) | SOIL MGMT. GROUP LAND (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
|----------|--|---------------------|---------------------|----------------------------------|--|-------------------------------|---------------------------------------|
| 1 | 2863.4 | 1630.9 | 2732.2 | 3092.4 | 2779.9 | 495.6 | 1248.3 |
| 2 | 4247.0 | 2938.0 | 4052.4 | 4512.5 | 4123.1 | 601.7 | 1840.4 |
| 3 | 214.8 | 214.8 | 205.0 | 228.2 | 208.5 | 214.8 | 214.8 |
| 4 | 354.7 | 354.7 | 339.4 | 376.9 | 344.4 | 153.7 | 153.7 |
| 5 | 32.7 | 32.7 | 31.2 | 34.8 | 31.8 | 32.7 | 32.7 |
| 6 | 7712.6 | 5171.1 | 7359.2 | 8194.8 | 7487.7 | 1408.5 | 3682.4 |
| 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 18 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 22 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 23 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 24 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 26 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 31 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 41 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 43 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 44 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 46 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 48 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 49 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 51 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 53 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 54 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 56 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 58 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 59 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 61 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 63 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 64 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 68 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 69 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 71 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 73 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 74 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 76 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 78 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 79 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 81 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 83 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 84 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 86 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 93 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 94 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 96 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 98 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 99 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 101 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 103 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 104 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 106 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 108 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 109 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 111 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 113 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 114 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 116 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 118 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 119 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 121 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 123 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 124 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 126 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 128 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 129 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 131 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 133 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 134 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 136 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 138 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 139 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 141 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 143 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 144 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 146 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 148 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 149 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 151 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 153 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 154 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 156 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 158 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 159 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 161 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 163 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 164 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 166 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 168 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 169 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 171 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 173 | 0.0 | 0.0 | 0.0</ | | | | |

LAKE Erie WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIS: AGRICULTURAL DITCH | | ACKERMAN DITCH | | COUNTY: 02 CRAWFORD, OHIO | | ALL IN BASIN | | | |
|---|--|--|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---|-------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION AND EXISTING ONLY (TONS/ACRE) | LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED FILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | |
| 1-CROPLAND 1 | 438.8 | 187.8 | 411.0 | 457.7 | 418.2 | 61.0 | 186.7 | 39.5 | 39.5 |
| 546 | 18.9 | 4.8 | 18.4 | 11.6 | 10.6 | 1.5 | 4.7 | 19.9 | 19.9 |
| 2-CROPLAND 2 | 2622.7 | 2163.7 | 2502.5 | 2746.7 | 2546.2 | 371.6 | 1136.5 | 968.7 | 227.3 |
| 546 | 2.7 | 2.2 | 2.6 | 2.3 | 2.6 | .4 | 1.2 | 5.0 | 5.0 |
| 3-CROPLAND 3 | 71.4 | 71.4 | 68.1 | 75.0 | 69.3 | 71.4 | 71.4 | 59.5 | 0.0 |
| 546 | 1.8 | 1.8 | 1.7 | 1.9 | 1.8 | 1.8 | 1.9 | 9.0 | 9.0 |
| 4-CROPLAND 4 | 1300.1 | 1300.1 | 1240.6 | 1341.4 | 1262.4 | 563.4 | 563.4 | 1334.4 | 0.0 |
| 546 | 1.0 | 1.0 | .9 | 1.0 | .9 | .4 | .4 | 0.0 | 0.0 |
| 5-CROPLAND 5 | 4425.0 | 3723.0 | 4222.2 | 4731.7 | 4295.9 | 1067.4 | 1958.0 | 2382.1 | |
| 546 | 1.9 | 1.6 | 1.8 | 2.0 | 1.8 | .4 | .3 | | |
| 6-VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 19.4 (ACRES) | | | | |
| 546 | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | |
| 7-PASTURE AND PASTURE | 1.0 | 1.0 (TONS) | 1.0 (TONS) | 1.0 (TONS) | 118.6 (ACRES) | | | | |
| 546 | 29.7 | 29.7 (ACRES) | 29.7 (ACRES) | 29.7 (ACRES) | | | | | |
| 8-WOODLAND | 6.7 | 6.7 (TONS) | 6.7 (TONS) | 6.7 (TONS) | 0.0 (ACRES) | | | | |
| 546 | 227.3 | 227.3 (ACRES) | 227.3 (ACRES) | 227.3 (ACRES) | | | | | |
| 9-SUMMARY TOTAL POTENTIAL GROSS EROSION | 4432.7 | 3730.7 | 4229.9 | 4709.4 | 4303.6 | 1075.1 | 1963.7 | 2639.1 | |
| PERCENT REDUCTION: | 1.7 | 1.4 | 1.6 | 1.8 | 1.6 | .4 | .7 | | |
| | 0.0 | 15.4 | 4.6 | -6.2 | 2.9 | 75.7 | 55.7 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: ROCK CREEK EAST | | COUNTY: CUYAHOGA, OHIO | | | | | | | | | | ALL IN BASIN | |
|---------------------------------------|--|--|--------------------------|--------------------------|--------------------------|--|---|--|--|--|--|--------------|---|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. SOIL LOSS > T FACTOR (TONS/ACRE) | | | | | | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) |
| 1 CROPLAND | 6215.4 | 1450.2 | 5900.7 | 6687.4 | 12.1 | 917.9 | 516.0 | | | | | | 415.1 |
| 543 | 12.1 | 2.4 | 11.5 | 13.0 | | 1.8 | 3.4 | | | | | | 14.5 |
| 2 CROPLAND | 22999.6 | 15043.4 | 21435.1 | 27746.4 | 4.6 | 3396.6 | 5001.4 | | | | | | 4942.1 |
| 546 | 4.6 | 3.0 | 4.4 | 4.9 | | 2.0 | 4.5 | | | | | | 4.5 |
| 3 CROPLAND | 487.8 | 487.8 | 463.1 | 524.9 | 487.8 | 487.8 | 306.4 | | | | | | 0.0 |
| 546 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.5 | | | | | | 0.0 |
| 4 CROPLAND | 50.1 | 50.1 | 47.5 | 53.9 | 50.1 | 22.2 | 59.3 | | | | | | 0.0 |
| 546 | 0.8 | 0.8 | 0.9 | 0.9 | 0.8 | 0.4 | 0.0 | | | | | | 0.0 |
| 5 CROPLAND | 179.0 | 179.0 | 169.9 | 192.6 | 179.0 | 173.0 | 177.3 | | | | | | 0.0 |
| 546 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | | | | | | 0.0 |
| 6 CROPLAND | 29931.9 | 17210.5 | 28416.3 | 32205.1 | 24931.9 | 13532.4 | 5059.0 | | | | | | 0.0 |
| 546 | 4.9 | 2.4 | 4.7 | 5.3 | 4.9 | 2.2 | 2.2 | | | | | | 0.0 |
| VINEYARDS AND ORCH. | 7.1 | 7.1 | 7.1 | 7.1 | 59.3 | | | | | | | | |
| 546 | 9.9 | 9.9 | 9.9 | 9.9 | 59.3 | | | | | | | | |
| 7 GRASSLAND AND PASTURE | 10.0 | 10.0 | 10.0 | 10.0 | 177.9 | | | | | | | | |
| 546 | 148.3 | 148.3 | 148.3 | 148.3 | 177.9 | | | | | | | | |
| 8 WOODLAND | 54.0 | 54.0 | 54.0 | 54.0 | 0.0 | | | | | | | | |
| 546 | 830.3 | 830.3 | 830.3 | 830.3 | 0.0 | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 30003.0 | 17211.4 | 28417.4 | 32206.2 | 30003.0 | 5074.6 | 7007.3 | | | | | | |
| PERCENT REDUCTION: | 0.0 | 42.4 | 5.1 | -7.5 | 0.0 | 93.1 | 54.3 | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

3ASIVE: ROCK CREEK WEST

COUNTY: OS SE'HECA, MI)

ALL IN BASIN

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO FILL (TONS/ACRE) | EXISTING POTENTIAL GROSS EROSION AND EXISTING ONLY (TONS/ACRE) | FALL PLOTTING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOTTING (TONS/ACRE) | SOIL NGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS POTENTIAL (TONS/ACRE) |
|---|---|-----------------------------|--|-----------------------------------|----------------------------------|--------------------------------|---|---|---|
| 1. CROPLAND | 21727.5 | 7765.7 | 20627.4 | 23377.7 | 21727.5 | 3208.7 | 9626.1 | 2362.3 | 1700.1 |
| 343 | 9.2 | 3.3 | 8.7 | 9.9 | 9.2 | 1.4 | 4.1 | | 11.2 |
| 2. CROPLAND | 50689.9 | 33821.7 | 48123.3 | 54539.8 | 50689.9 | 7485.8 | 22457.5 | 11050.5 | 11040.6 |
| 346 | 4.6 | 5.1 | 4.4 | 4.9 | 4.6 | .7 | 2.0 | | 6.6 |
| 3. CROPLAND | 1207.0 | 1207.0 | 1145.9 | 1207.0 | 1207.0 | 1207.0 | 1207.0 | 761.1 | 0.0 |
| 345 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.5 | | 0.0 |
| 4. CROPLAND | 83.5 | 83.5 | 79.2 | 89.8 | 83.5 | 37.0 | 37.0 | 98.9 | 0.0 |
| 346 | .8 | .8 | .8 | .9 | .8 | .4 | .4 | | 0.0 |
| 5. CROPLAND | 379.6 | 379.6 | 360.3 | 408.4 | 379.6 | 379.6 | 379.6 | 375.6 | 0.0 |
| 346 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | | 0.0 |
| 6. CROPLAND | 74087.5 | 43257.5 | 70336.1 | 79719.4 | 74087.5 | 12318.1 | 33707.5 | 14648.3 | |
| 343 | 5.1 | 3.0 | 4.8 | 5.4 | 5.1 | .8 | 2.5 | | |
| 7. VINEYARDS AND ORCH. | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 148.3 | | | |
| 343 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | | | | |
| 8. PASTURE AND PASTURE | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 622.7 | | | |
| 343 | 365.7 | 365.7 | 365.7 | 365.7 | 365.7 | | | | |
| 9. WOODLAND | 273.4 | 273.4 | 273.4 | 273.4 | 273.4 | 3864.7 | | | |
| 343 | 2441.4 | 2441.4 | 2441.4 | 2441.4 | 2441.4 | | | | |
| 10. SUMMARY TOTAL POTENTIAL GROSS EROSION | 90860.0 | 53287.9 | 86278.5 | 97732.0 | 90860.0 | 15422.3 | 41544.5 | 21330.0 | |
| PERCENT REDUCTION: | 0.0 | 41.4 | 5.0 | -7.6 | 0.0 | 83.0 | 54.3 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: WARON RIVER | | | | | | | | | | COUNTY: G2 CRAWFORD, OHIO | | | | | | | | | |
|---------------------------------------|---|--------------------------------------|-------------------------------|--------------------------|---------------------------------------|-----------------------------|-----------------------|---|--------------------------------------|-------------------------------|--------------------------|---------------------------------------|-----------------------------|-----------------------|--|--|--|--|--|
| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | LOSS TO Y. PLANTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL LOSS (TONS/ACRE) | EXISTING POT. GROSS EROSION (TONS/ACRE) | LOSS TO Y. PLANTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL LOSS (TONS/ACRE) | | | | | |
| 200PLAND 1 | 9213.0 | 9.2 | 985.1 | 8790.8 | 9288.8 | 8544.3 | 1315.2 | 3942.3 | 139.3 | 3942.3 | 139.3 | 3942.3 | 139.3 | 3942.3 | | | | | |
| 546 | 1 | 0.9 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | | | | | |
| 200PLAND 2 | 5676.1 | 3.7 | 416.4 | 5016.3 | 6030.7 | 5513.6 | 504.1 | 2659.7 | 1541.2 | 2659.7 | 1541.2 | 2659.7 | 1541.2 | 2659.7 | | | | | |
| 546 | 2 | 2.7 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | 546.0 | | | | | |
| 200PLAND 3 | 250.0 | 1.6 | 250.0 | 232.5 | 265.6 | 242.7 | 290.3 | 250.0 | 156.1 | 250.0 | 156.1 | 250.0 | 156.1 | 250.0 | | | | | |
| 546 | 3 | 1.6 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | 250.0 | | | | | |
| 200PLAND 4 | 436.5 | 2.8 | 436.5 | 416.5 | 465.7 | 423.7 | 149.1 | 183.1 | 323.3 | 183.1 | 323.3 | 183.1 | 323.3 | 183.1 | | | | | |
| 546 | 4 | 2.8 | 436.5 | 436.5 | 436.5 | 436.5 | 436.5 | 436.5 | 436.5 | 436.5 | 436.5 | 436.5 | 436.5 | 436.5 | | | | | |
| 200PLAND 5 | 136.3 | 1.4 | 136.3 | 130.1 | 144.9 | 132.4 | 136.3 | 136.3 | 98.9 | 136.3 | 98.9 | 136.3 | 98.9 | 136.3 | | | | | |
| 546 | 5 | 1.4 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | | | | | |
| 200PLAND 6 | 15711.9 | 4.7 | 9871.9 | 14991.9 | 16693.9 | 15253.7 | 2684.7 | 7027.1 | 3321.3 | 7027.1 | 3321.3 | 7027.1 | 3321.3 | 7027.1 | | | | | |
| 546 | 6 | 4.7 | 15711.9 | 15711.9 | 15711.9 | 15711.9 | 15711.9 | 15711.9 | 15711.9 | 15711.9 | 15711.9 | 15711.9 | 15711.9 | 15711.9 | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 39.5 (ACRES) | 39.5 (ACRES) | | | | | | | | | | | | | |
| 546 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 138.4 | 0.6 | 138.4 (TONS) | OTHER LAND USE AREA | 118.6 (ACRES) | 118.6 (ACRES) | | | | | | | | | | | | | |
| 546 | 0.6 | 0.6 | 138.4 | 138.4 | 138.4 | 138.4 | | | | | | | | | | | | | |
| WOODLAND | 38.6 | 0.6 | 38.6 (TONS) | MISSING DATA | 207.6 (ACRES) | 207.6 (ACRES) | | | | | | | | | | | | | |
| 546 | 0.6 | 0.6 | 38.6 | 38.6 | 38.6 | 38.6 | | | | | | | | | | | | | |
| 3000000 TOTAL POTENTIAL GROSS EROSION | 16617.4 | 4.2 | 10456.3 | 15857.8 | 17653.4 | 16134.0 | 2873.9 | 7493.1 | 3903.3 | 7493.1 | 3903.3 | 7493.1 | 3903.3 | 7493.1 | | | | | |
| PERCENT REDUCTION: | 0.0 | 37.1 | 4.6 | -6.2 | 2.9 | 82.7 | 55.1 | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MURON RIVER | | COUNTY: 03 SENECA, OHIO | | | | | | | | | |
|---|--|---|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | REDUCE SOIL SPRING LOSS TO T PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | | | |
| 1--CROPLAND 1 | 7582.9 | 2868.9 | 7123.0 | 8672.6 | 1198.3 | 3328.1 | 311.3 | 911.9 | | | |
| 545 | 8.2 | 3.1 | 7.9 | 8.4 | 1.2 | 3.5 | | 4.2 | | | |
| 2--CROPLAND 2 | 41707.2 | 28435.6 | 39135.4 | 49174.1 | 113.7 | 14977.7 | 4459.2 | 6443.3 | | | |
| 546 | 4.4 | 3.0 | 4.0 | 4.4 | .7 | 2.7 | | 4.4 | | | |
| 3--CROPLAND 3 | 1642.7 | 1642.7 | 1559.7 | 1767.4 | 143.7 | 1562.7 | 1347.5 | 0.0 | | | |
| 545 | 1.6 | 1.5 | 1.5 | 1.7 | 1.6 | 1.5 | | 0.0 | | | |
| 4--CROPLAND 4 | 303.1 | 303.1 | 277.0 | 326.0 | 134.5 | 134.5 | 296.6 | 1.0 | | | |
| 546 | 1.1 | 1.1 | 1.0 | 1.1 | .5 | .5 | | 0.0 | | | |
| 5--CROPLAND 5 | 114.2 | 114.2 | 106.4 | 122.9 | 114.2 | 114.2 | 133.1 | 0.0 | | | |
| 545 | 1.1 | 1.1 | 1.0 | 1.2 | 1.1 | 1.1 | | 0.0 | | | |
| 6--CROPLAND 6 | 371.6 | 371.6 | 352.0 | 374.6 | 144.6 | 144.6 | 355.7 | 0.0 | | | |
| 546 | 1.0 | 1.0 | 1.0 | 1.1 | .5 | .5 | | 0.0 | | | |
| 7--CROPLAND 7 | 51641.7 | 33736.2 | 49226.9 | 55563.9 | 333.1 | 23457.3 | 13157.3 | 0443.3 | | | |
| 545 | 4.2 | 2.6 | 4.3 | 4.3 | .4 | 2.3 | | 4.4 | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | -1.0 (ACRES) | | | | | | |
| 545 | 0.0 | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | | | | | | | |
| 8--GRASSLAND AND PASTURE | 13.0 | 13.0 (TONS) | OTHER LEAD JSE AREA | 672.1 (ACRES) | | | | | | | |
| 545 | 266.9 | 266.9 (ACRES) | | | | | | | | | |
| 9--WOODLAND | 97.2 | 97.2 (TONS) | MISSING DATA | 217.5 (ACRES) | | | | | | | |
| 545 | 1462.9 | 1462.9 (ACRES) | | | | | | | | | |
| 10--SUMMARY TOTAL POTENTIAL GROSS EROSION | 52561.9 | 34376.2 | 49906.1 | 56545.4 | 9580.9 | 24363.1 | 19114.7 | | | | |
| PERCENT REDUCTION: | 0.0 | 34.6 | 5.1 | -7.6 | 0.0 | 53.7 | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: PEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: MURON RIVER | | MILAN, OH | | COUNTY: ON HURON, OHIO | | | | |
|---------------------------------------|--|--|--------------------------|------------------------|--------------------------|--|------------------------------|---------------------------------------|
| LAND USE | EXISTING POTENTIAL SOIL SPRING LOSS TO 7 PLOWING ONLY (TONS) | EXISTING POTENTIAL SOIL SPRING LOSS TO 7 PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER (TONS) | MAXIMUM REDUCTION (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. GROUP LAND (TONS) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
| CROPLAND 1 | 271640.8 | 115227.4 | 258775.6 | 284395.8 | 259449.4 | 37581.5 | 113818.3 | 25044.1 |
| 546 | 10.8 | 4.6 | 10.3 | 11.4 | 10.4 | 1.5 | 4.3 | 10.8 |
| CROPLAND 2 | 159863.6 | 140443.1 | 152281.1 | 167446.0 | 152012.9 | 22115.5 | 66979.9 | 44676.6 |
| 545 | 3.4 | 3.0 | 3.2 | 3.5 | 3.2 | .5 | 1.4 | 3.5 |
| CROPLAND 3 | 85449.5 | 76723.6 | 81396.6 | 89502.4 | 81734.3 | 85449.5 | 85449.5 | 27404.0 |
| 543 | 3.1 | 2.8 | 3.0 | 3.3 | 3.0 | 3.1 | 3.1 | 3.2 |
| CROPLAND 4 | 28420.2 | 28420.2 | 27072.2 | 29768.2 | 27184.6 | 11907.3 | 11907.3 | 19538.6 |
| 546 | 1.5 | 1.5 | 1.4 | 1.5 | 1.4 | .6 | .6 | 0.0 |
| CROPLAND 5 | 22504.0 | 22504.0 | 21436.6 | 23573.3 | 21525.5 | 22504.0 | 22504.0 | 19417.5 |
| 543 | 1.2 | 1.2 | 1.1 | 1.2 | 1.1 | 1.2 | 1.2 | 0.0 |
| CROPLAND 6 | 104.1 | 104.1 | 99.2 | 109.0 | 99.6 | 43.6 | 43.6 | 89.0 |
| 546 | 1.2 | 1.2 | 1.1 | 1.2 | 1.1 | .5 | .5 | 0.0 |
| CROPLAND 7 | 568002.2 | 383422.4 | 541061.3 | 59492.7 | 543506.3 | 179501.4 | 300701.1 | 139948.4 |
| 546 | 4.1 | 2.8 | 3.9 | 4.3 | 3.9 | 1.3 | 2.2 | |
| VINEYARDS AND ORCH. | 298.5 | 298.5 (TONS) | 365.7 | 365.7 (ACRES) | 4618.4 (ACRES) | | | |
| 542 | .82 | .82 (TONS/ACRE) | | | | | | |
| GRASSLAND AND PASTURE | 442.9 | 442.9 (TONS) | 7094.4 | 7094.4 (ACRES) | 12594.9 (ACRES) | | | |
| 546 | .86 | .86 (TONS/ACRE) | | | | | | |
| WOODLAND | 1976.7 | 1976.7 (TONS) | 22377.8 | 22377.8 (ACRES) | 3746.1 (ACRES) | | | |
| 546 | .09 | .09 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | |
| 583394.6 | 594715.7 | 555855.4 | 610933.3 | 558150.2 | 186368.4 | 310157.4 | 172432.4 | |
| 3.4 | 2.3 | 3.2 | 3.5 | 3.2 | 1.1 | 1.9 | | |
| PERCENT REDUCTION: | | | | | | | | |
| 0.0 | 32.3 | 4.7 | -4.7 | 4.3 | 68.1 | 45.3 | | |

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CORPS OF ENGINEERS BUFFALO N Y BUFFALO DISTRICT F/6 5/1
LAND MANAGEMENT ALTERNATIVES IN THE LAKE ERIE DRAINAGE BASIN.(U)
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UNCLASSIFIED

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1997

LAKL ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MURON RIVER | | | MILANOM | | | COUNTY: 37 ERIE, ONTIO | | | | | |
|---------------------------------------|--|--|--------------------------|---------------------|----------------------------------|--|------------------------------------|---|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER (TONS) | MAXIMUM TILLAGE REDUCTION (TONS) | REDUCED TILLAGE CRIPSEL AREA (TONS/ACRE) | SOIL MGMT. SAVOP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | | | |
| 230PLAND 1 | 4562.7 | 4621.6 | 4314.1 | 4611.2 | 4367.4 | 1881.3 | 2006.5 | 227.3 | | | |
| 346 | 2.3 | 2.2 | 2.2 | 2.4 | 2.2 | .9 | | 2.6 | | | |
| 230PLAND 2 | 3897.4 | 3897.4 | 3685.1 | 4119.7 | 3730.6 | 1607.5 | 2936.8 | 9.0 | | | |
| 346 | 1.4 | 1.4 | 1.3 | 1.4 | 1.2 | .5 | | 6.0 | | | |
| 230PLAND 3 | 1476.5 | 1476.5 | 1396.1 | 1556.7 | 1413.3 | 1476.5 | 751.2 | 0.0 | | | |
| 346 | 2.0 | 2.0 | 1.3 | 2.1 | 1.9 | 2.0 | | 0.0 | | | |
| 230PLAND 4 | 2658.8 | 2658.8 | 2514.7 | 2893.7 | 2545.0 | 1096.6 | 3192.5 | 9.0 | | | |
| 346 | .8 | .8 | .8 | .9 | .8 | .3 | | 0.0 | | | |
| 230PLAND 5 | 1434.9 | 1425.8 | 1356.7 | 1513.1 | 1373.5 | 1434.9 | 1512.3 | 19.4 | | | |
| 346 | .9 | .9 | .9 | 1.0 | .9 | .9 | | 1.5 | | | |
| 230PLAND 6 | 354.3 | 354.3 | 335.5 | 373.6 | 339.1 | 146.1 | 454.7 | 0.0 | | | |
| 346 | .8 | .8 | .7 | .8 | .7 | .3 | | 0.0 | | | |
| 230PLAND 7 | 14713.8 | 474.4 | 13912.3 | 15515.4 | 14084.1 | 6085.7 | 158.1 | 158.1 | | | |
| 346 10 | 93.1 | 3.0 | 88.0 | 98.1 | 89.1 | 39.4 | | 93.1 | | | |
| 230PLAND 8 | 14708.8 | 14708.8 | 27513.3 | 30683.6 | 27853.0 | 13712.2 | 10912.2 | | | | |
| 346 | 2.7 | 1.3 | 2.3 | 2.8 | 2.6 | .7 | | | | | |
| VINEYARDS AND ORCH. | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | | | | | |
| 346 | .87 | .87 | .87 | .87 | .87 | .87 | | | | | |
| 230PLAND 9 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | | | | | |
| 346 | .10 | .10 | .10 | .10 | .10 | .10 | | | | | |
| 230PLAND 10 | 1373.6 | 1373.6 | 1373.6 | 1373.6 | 1373.6 | 1373.6 | | | | | |
| 346 | .61 | .61 | .61 | .61 | .61 | .61 | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 30966.4 | 16385.6 | 29363.0 | 32572.4 | 29734.3 | 15373.5 | 16174.0 | | | | |
| PERCENT REDUCTION: | 0.6 | 47.1 | 5.2 | -5.2 | 4.1 | 71.9 | 50.4 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 62 ALL IN BASIN

MILAN, OH

3451: MURON RIVER

| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | REDUCE SOIL LOSS TO T PLOUING ONLY (TONS/ACRE) | FALL PLOUING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION YILLAGE (TONS/ACRE) | REDUCED YILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
|---------------------------------------|---|--|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---------------------------------------|
| CROPLAND 1 | 321836.2 | 149051.2 | 306748.7 | 308751.1 | 46852.1 | 138411.8 | 32756.0 | 30828.8 |
| | 9.8 | 4.4 | 9.4 | 9.4 | 1.4 | 4.2 | | 10.3 |
| CROPLAND 2 | 233679.1 | 192931.9 | 223198.6 | 226353.6 | 33917.7 | 101762.6 | 65629.4 | 60210.6 |
| | 3.5 | 2.9 | 3.3 | 3.4 | .5 | 1.3 | | 3.7 |
| CROPLAND 3 | 90193.9 | 81362.0 | 85917.1 | 86372.8 | 90193.9 | 90193.9 | 30154.2 | 22778.2 |
| | 3.0 | 2.7 | 2.8 | 2.9 | 3.0 | 3.0 | | 3.2 |
| CROPLAND 4 | 32649.8 | 32649.8 | 31110.7 | 31286.8 | 13783.1 | 13783.1 | 24925.5 | 0.0 |
| | 1.3 | 1.3 | 1.2 | 1.3 | .6 | .6 | | 0.0 |
| CROPLAND 5 | 24395.8 | 24386.7 | 23235.7 | 23352.0 | 24395.8 | 24395.8 | 21498.1 | 19.8 |
| | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | | 1.5 |
| CROPLAND 8 | 830.0 | 830.0 | 787.0 | 810.3 | 354.4 | 354.4 | 989.3 | 0.0 |
| | .9 | .9 | .9 | .9 | .4 | .4 | | 0.0 |
| CROPLAND 10 | 14713.8 | 474.4 | 13912.3 | 14084.1 | 1889.3 | 6088.7 | 158.1 | 158.1 |
| | 93.1 | 3.0 | 88.0 | 89.1 | 12.0 | 38.4 | | 93.1 |
| CROPLAND | 717495.8 | 477685.2 | 684910.1 | 691010.1 | 210586.3 | 374970.3 | 177011.0 | |
| | 4.1 | 2.7 | 3.9 | 3.9 | 1.2 | 2.1 | | |
| VINEYARDS AND ORCH. | 299.9 | 299.9 (TONS) | JATER AREA ONLY | 5115.1 (ACRES) | | | | |
| | 385.5 | 385.5 (ACRES) | | | | | | |
| | .78 | .78 (TONS/ACRE) | | | | | | |
| GRASSLAND AND PASTURE | 713.4 | 713.4 (TONS) | OTHER LAND USE AREA | 15886.4 (ACRES) | | | | |
| | 9288.7 | 9288.7 (ACRES) | | | | | | |
| | .08 | .08 (TONS/ACRE) | | | | | | |
| WOODLAND | 3307.6 | 3307.6 (TONS) | MISSING DATA | 4556.1 (ACRES) | | | | |
| | 29118.8 | 29118.8 (ACRES) | | | | | | |
| | .13 | .13 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 737682.4 | 492444.4 | 704222.7 | 711322.0 | 220071.0 | 387332.3 | 224000.1 | |
| | 3.3 | 2.2 | 3.2 | 3.5 | 1.0 | 1.4 | | |
| PERCENT REDUCTION: | 0.0 | 33.2 | 4.0 | -5.4 | 3.7 | 71.2 | 47.4 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: PEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MORVALL CREEK | | MORVALL, NY | | COUNTY: CHAUTAUK, NY | | ALL IN BASIN | | |
|---------------------------------------|--|---|-------------------------------|-------------------------|---------------------------------------|---|----------------------------------|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: MISCL PLD AREA (TONS/ACRE) | SOIL MGMT. RESIDUAL AREA (ACRES) | CRISTING SOIL LOSS BY FACTOR (TONS/ACRE) |
| CROPLAND 1 | 2771.1 | 1047.5 | 2639.7 | 2982.5 | 2658.6 | 303.4 | 1141.0 | 266.7 |
| 346 | 10.4 | 0.0 | 9.9 | 10.0 | 9.9 | 1.4 | 9.5 | 10.4 |
| CROPLAND 2 | 1070.1 | 1047.5 | 1026.0 | 1129.2 | 1331.2 | 149.1 | 451.7 | 355.8 |
| 346 | 3.0 | 3.0 | 2.9 | 3.2 | 2.9 | .4 | 1.3 | 3.0 |
| CROPLAND 3 | 3993.5 | 3993.5 | 3980.1 | 4142.7 | 3819.2 | 3993.5 | 3993.5 | 0.0 |
| 346 | 3.0 | 3.0 | 2.9 | 3.1 | 2.9 | 3.0 | 3.3 | 0.0 |
| CROPLAND 5 | 323.5 | 323.5 | 308.2 | 338.9 | 309.5 | 323.5 | 323.5 | 0.0 |
| 346 | 1.2 | 1.2 | 1.2 | 1.3 | 1.2 | 1.2 | 1.2 | 0.0 |
| CROPLAND | 8166.2 | 6452.0 | 7778.9 | 8553.5 | 7811.1 | 6549.5 | 5929.7 | 2224.0 |
| 346 | 3.7 | 2.9 | 3.5 | 3.0 | 3.5 | 2.2 | 2.7 | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 266.9 (ACRES) | | | | |
| 346 | 0.0 | 0.0 (ACRES) | 6.00 (TONS/ACRE) | | | | | |
| GRASSLAND AND PASTURE | 13.2 | 13.2 (TONS) | OTHER LAND USE AREA | 355.0 (ACRES) | | | | |
| 346 | 355.0 | 355.0 (ACRES) | 3.0 (TONS/ACRE) | | | | | |
| WOODLAND | 0.0 | 0.0 (TONS) | MISSING DATA | 177.9 (ACRES) | | | | |
| 346 | 0.0 | 0.0 (ACRES) | 0.00 (TONS/ACRE) | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 8743.9 | 6911.0 | 8329.4 | 9157.4 | 8363.9 | 5190.0 | 6392.7 | 2797.7 |
| 346 | 3.2 | 2.5 | 3.0 | 3.3 | 3.0 | 1.9 | 2.3 | |
| PERCENT REDUCTIONS: | 0.0 | 21.0 | 4.7 | -4.7 | 4.3 | 40.5 | 27.5 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: VERMILION RIVER | | VERMILION, OH | | COUNTY: 34 HUPON, OHIO | | | | |
|---------------------------------------|------------------------------------|---|---------------------------------|---------------------------|----------------------------------|--|------------------------------------|---------------------------------------|
| LAND USE | EXISTING POT. GROSS EROSION (TONS) | REDUCE LOSS TO Y AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CMISEL 3-3W AREA (TONS) | SOIL WGMT. 3400+ LAND AREA (ACRES) | EXISTING SOIL LOSS & T FACTOR (ACRES) |
| 1 CROPLAND 346 | 90795.8 18.5 | 38073.9 4.4 | 86409.3 10.0 | 95102.3 11.0 | 12560.7 1.5 | 38040.7 4.4 | 9620.9 16.5 | |
| 2 CROPLAND 346 | 42324.0 3.6 | 35410.4 3.0 | 40316.5 3.5 | 44331.4 3.8 | 5855.1 .5 | 17732.5 1.5 | 11553.5 3.7 | |
| 3 CROPLAND 346 | 95563.5 3.0 | 89243.3 2.8 | 91030.7 2.9 | 100096.1 3.1 | 95563.5 3.0 | 95563.5 3.0 | 51876.5 3.0 | 28852.0 |
| 4 CROPLAND 346 | 9792.5 2.2 | 9792.5 2.2 | 9328.0 2.1 | 10257.0 2.3 | 9366.7 2.1 | 4132.4 .9 | 4447.3 0.0 | 0.0 |
| 5 CROPLAND 346 | 6421.6 1.1 | 6421.6 1.1 | 6117.0 1.1 | 6726.2 1.2 | 6142.4 1.1 | 6421.6 1.1 | 3504.3 1.1 | 0.0 |
| 6 CROPLAND 346 | 24487.4 3.9 | 178941.7 2.9 | 233281.5 3.7 | 256513.0 4.1 | 234249.7 3.0 | 124503.7 2.0 | 161861.4 2.6 | 62211.2 |
| VINEYARDS AND ORCH. | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 1245.4 (ACRES) | | | |
| 7 PASTURE AND PASTURE | 127.1 3024.6 | 127.1 (TONS) 3024.6 (ACRES) | 127.1 (TONS) 3024.6 (ACRES) | 4625.6 (ACRES) | | | | |
| 8 CROPLAND | 967.8 15834.5 | 967.8 (TONS) 15834.5 (ACRES) | 967.8 (TONS) 15834.5 (ACRES) | 1304.7 (ACRES) | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | |
| | 249951.2 | 182934.0 | 238148.3 | 261753.7 | 239132.1 | 127619.4 | 165578.9 | 82375.0 |
| | 3.0 | 2.2 | 2.9 | 3.2 | 2.9 | 1.5 | 2.3 | |
| PERCENT REDUCTION: | 0.0 | 26.8 | 4.7 | -4.7 | 4.3 | 44.9 | 33.8 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: VERMILION RIVER | | VERMILION, OH | | COUNTY: CUYAHOGA, OHIO | | | | | | | | | |
|---------------------------------------|--|--------------------------------------|--|---------------------------------|-------------------------------|---------------------------------------|-----------------------------|------------------------|------------------------------|--------------------------------|-------------------------------|------------------------|------------------------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T PLOUGHING ONLY (TONS/ACRE) | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | FALL PLOUGHING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | 3333 LAND AREA (ACRES) | SOIL LOSS FACTOR (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | REDUCED SOIL LOSS (TONS/ACRE) | 3333 LAND AREA (ACRES) | SOIL LOSS FACTOR (TONS/ACRE) |
| 210PLAND 1 | 5635.4 | 2369.9 | 5328.4 | 5942.3 | 5394.2 | 723.6 | 2324.3 | 741.3 | 731.4 | 7.7 | 731.4 | 7.7 | 7.7 |
| 546 | 7.6 | 3.2 | 7.2 | 8.0 | 7.3 | 1.8 | 3.1 | | | | | | |
| 210PLAND 2 | 508.7 | 546.9 | 556.7 | 620.9 | 553.5 | 75.6 | 242.9 | 326.2 | 42.4 | 42.4 | 3.0 | 3.0 | 3.0 |
| 546 | 1.4 | 1.4 | 1.7 | 1.6 | 1.7 | .2 | .7 | | | | | | |
| 210PLAND 3 | 3901.4 | 3901.4 | 3682.9 | 4114.0 | 3734.4 | 3981.4 | 3981.4 | 1640.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 546 | 2.4 | 2.4 | 2.2 | 2.5 | 2.3 | 2.4 | 2.4 | | | | | | |
| 210PLAND 4 | 433.2 | 453.2 | 428.5 | 477.2 | 433.8 | 186.9 | 186.9 | 316.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 546 | 1.4 | 1.4 | 1.4 | 1.5 | 1.4 | .6 | .5 | | | | | | |
| 210PLAND 5 | 88.5 | 88.5 | 83.7 | 93.3 | 84.7 | 88.5 | 88.5 | 79.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 546 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 | 1.1 | 1.1 | | | | | | |
| 210PLAND 10 | 3485.6 | 160.8 | 3220.1 | 3591.2 | 3259.9 | 437.3 | 1480.7 | 49.0 | 49.4 | 49.4 | 68.9 | 68.9 | 68.9 |
| 546 | 68.9 | 3.4 | 65.2 | 72.7 | 56.0 | 8.9 | 25.4 | | | | | | |
| 210PLAND | 14072.8 | 7987.9 | 13386.3 | 14839.5 | 13478.5 | 5413.3 | 8108.6 | 3153.1 | | | | | |
| | 4.5 | 2.4 | 4.2 | 4.7 | 4.3 | 1.7 | 2.5 | | | | | | |
| VINEYARDS AND ORCH. | 54.7 | 54.7 (TONS) | JATER AREA ONLY | 118.6 (ACRES) | | | | | | | | | |
| | 69.2 | 69.2 (ACRES) | | | | | | | | | | | |
| | .79 | .79 (TONS/ACRE) | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 147.3 | 147.3 (TONS) | JATER LAND USE AREA | 1018.1 (ACRES) | | | | | | | | | |
| | 1719.8 | 1719.8 (ACRES) | | | | | | | | | | | |
| | .89 | .89 (TONS/ACRE) | | | | | | | | | | | |
| WOODLAND | 667.9 | 667.9 (TONS) | MISSING DATA | 217.5 (ACRES) | | | | | | | | | |
| | 2382.1 | 2382.1 (ACRES) | | | | | | | | | | | |
| | .24 | .24 (TONS/ACRE) | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 15386.4 | 4769.0 | 14597.2 | 16175.9 | 14766.3 | 6469.8 | 9286.3 | 7341.7 | | | | | |
| | 2.8 | 1.2 | 1.9 | 2.1 | 2.0 | .9 | 1.2 | | | | | | |
| PERCENT REDUCTION: | 8.0 | 43.4 | 5.1 | -5.1 | 4.0 | 54.0 | 39.5 | | | | | | |

Lake Erie Wastewater Management Study
Land Management Alternatives: Best Management Practice Scenarios

U.S. Army Corps of Engineers, Buffalo District

| BASIN: VERMILLION RIVER | | VERMILLION, OH | | COUNTY: IN RICHLAND, OHIO | | | | | | |
|---------------------------------------|---|------------------------------|--------------------------------|---------------------------|--------------------------|----------------------------------|--|-------------------------------------|---------------------------------------|------------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS) | LOSS TO T PAVING ONLY (TONS) | SOIL SPRING PAVING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION VILLAGE (TONS) | REDUCED VILLAGE: CHISFL PLOW AREA (TONS) | SOIL MOIST. SETUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | (TONS/ACRE) |
| 230PLAND 1 | 6403.3 | 3025.2 | 6366.8 | 7150.5 | 6443.3 | 1257.2 | 800.6 | 800.6 | 800.6 | 800.6 |
| 346 | 8.0 | 4.8 | 8.0 | 8.9 | 8.0 | 1.6 | 6.4 | 6.4 | 6.4 | 6.4 |
| 230PLAND 2 | 22513.3 | 15957.7 | 22238.7 | 24984.2 | 22513.3 | 4592.8 | 5426.4 | 5426.4 | 5426.4 | 5426.4 |
| 343 | 4.1 | 2.9 | 4.1 | 4.6 | 4.1 | .8 | 2.3 | 2.3 | 2.3 | 2.3 |
| 230PLAND 3 | 3368.6 | 3368.6 | 3327.6 | 3738.4 | 3368.6 | 3368.6 | 1779.2 | 1779.2 | 1779.2 | 1779.2 |
| 346 | 1.9 | 1.9 | 1.9 | 2.1 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 230PLAND 4 | 562.3 | 562.3 | 555.4 | 624.0 | 562.3 | 308.4 | 809.6 | 809.6 | 809.6 | 809.6 |
| 343 | 6.6 | 6.6 | 6.6 | 6.7 | 6.6 | .3 | .3 | .3 | .3 | .3 |
| 230PLAND 5 | 266.2 | 266.2 | 262.9 | 295.4 | 266.2 | 266.2 | 355.8 | 355.8 | 355.8 | 355.8 |
| 346 | 7.7 | 7.7 | 7.7 | 8.0 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 |
| 230PLAND 10 | 1921.3 | 266.9 | 1897.9 | 2132.2 | 1921.3 | 374.9 | 89.8 | 89.8 | 89.8 | 89.8 |
| 346 | 21.6 | 3.0 | 21.3 | 24.0 | 21.6 | 4.2 | 11.3 | 11.3 | 11.3 | 11.3 |
| 230PLAND | 35875.0 | 24246.9 | 34647.4 | 38928.7 | 35075.0 | 9968.3 | 20809.6 | 20809.6 | 20809.6 | 20809.6 |
| 346 | 3.8 | 2.6 | 3.7 | 4.2 | 3.6 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) |
| 346 | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) |
| GRASSLAND AND PASTURE | 30.4 | 30.4 (TONS) | 30.4 (TONS) | 30.4 (TONS) | 30.4 (TONS) | 30.4 (TONS) | 30.4 (TONS) | 30.4 (TONS) | 30.4 (TONS) | 30.4 (TONS) |
| 346 | 355.8 | 355.8 (TONS) | 355.8 (TONS) | 355.8 (TONS) | 355.8 (TONS) | 355.8 (TONS) | 355.8 (TONS) | 355.8 (TONS) | 355.8 (TONS) | 355.8 (TONS) |
| 346 | 30.9 | 30.9 (TONS/ACRE) | 30.9 (TONS/ACRE) | 30.9 (TONS/ACRE) | 30.9 (TONS/ACRE) | 30.9 (TONS/ACRE) | 30.9 (TONS/ACRE) | 30.9 (TONS/ACRE) | 30.9 (TONS/ACRE) | 30.9 (TONS/ACRE) |
| WOODLAND | 152.5 | 152.5 (TONS) | 152.5 (TONS) | 152.5 (TONS) | 152.5 (TONS) | 152.5 (TONS) | 152.5 (TONS) | 152.5 (TONS) | 152.5 (TONS) | 152.5 (TONS) |
| 343 | 1423.3 | 1423.3 (ACRES) | 1423.3 (ACRES) | 1423.3 (ACRES) | 1423.3 (ACRES) | 1423.3 (ACRES) | 1423.3 (ACRES) | 1423.3 (ACRES) | 1423.3 (ACRES) | 1423.3 (ACRES) |
| 346 | 11 | 11 (TONS/ACRE) | 11 (TONS/ACRE) | 11 (TONS/ACRE) | 11 (TONS/ACRE) | 11 (TONS/ACRE) | 11 (TONS/ACRE) | 11 (TONS/ACRE) | 11 (TONS/ACRE) | 11 (TONS/ACRE) |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 35540.1 | 26625.3 | 35109.1 | 39420.6 | 35540.1 | 10232.4 | 21240.2 | 21240.2 | 21240.2 | 21240.2 |
| 346 | 3.2 | 2.2 | 3.1 | 3.5 | 3.2 | 3.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| PERCENT REDUCTION: | 8.0 | 30.7 | 1.2 | -10.9 | 0.0 | 71.2 | 40.2 | 40.2 | 40.2 | 40.2 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: VERMILION RIVER VERMILION, OH COUNTY: 16 ASHLAND, OHIO

| LAND USE | EXISTING POT-REDUCE SOIL SPRING LOSS TO T. PLUING AND EXISTING ONLY (TONS) (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MENT. 312/3 LAUD AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
|---------------------------------------|--|-----------------------------------|---|---|---|--|--|
| (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) |
| 230PLAND 546 1 | 40935.5 8.5 | 19570.7 4.1 | 4012.4 0.4 | 47317.5 9.9 | 40933.5 8.5 | 11266.1 2.3 | 4093.7 0.5 |
| 230PLAND 546 2 | 39704.1 3.1 | 35437.5 2.8 | 34975.5 3.1 | 45896.4 3.5 | 39704.1 3.1 | 10927.7 0.9 | 1023.3 7.0 |
| CROPLAND 546 3 | 3438.0 1.8 | 3438.0 1.8 | 3374.9 1.7 | 3974.2 2.0 | 3438.0 1.8 | 3438.0 1.8 | 1957.1 0.0 |
| CROPLAND 546 4 | 214.1 0.4 | 214.1 0.4 | 210.2 0.4 | 247.5 0.5 | 214.1 0.4 | 147.3 0.3 | 533.7 0.0 |
| CROPLAND 546 5 | 735.6 0.5 | 735.6 0.5 | 722.1 0.5 | 850.3 0.6 | 735.6 0.5 | 735.6 0.5 | 1023.3 0.0 |
| 230PLAND 546 10 | 16571.1 31.0 | 2046.0 3.8 | 16267.0 30.5 | 19155.6 35.3 | 16571.1 31.0 | 4560.8 8.5 | 533.7 31.0 |
| 230PLAND | 101596.4 4.6 | 61441.9 2.6 | 97732.1 4.6 | 117441.6 5.4 | 101596.4 4.6 | 31075.5 1.9 | 21893.3 3.3 |
| VINEYARDS AND ORCH. | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 355.4 (ACRES) | | |
| BRASSLAND AND PASTURE | 405.2 1423.3 | 405.2 (TONS) 1423.3 (ACRES) | OTHER LAND USE AREA .28 (TONS/ACRE) | 2046.0 (ACRES) | | | |
| 4000LAND | 1488.5 5337.5 | 1488.5 (TONS) 5337.5 (ACRES) | MISSING DATA .28 (TONS/ACRE) | 2401.9 (ACRES) | | | |
| 3 JUNEY TOTAL POTENTIAL GROSS EROSION | 112159.3 3.6 | 60637.8 2.2 | 110138.7 3.5 | 129333.2 4.2 | 112159.3 3.6 | 35725.1 1.2 | 79222.3 2.5 |
| PERCENT REDUCTION: | 0.0 | 38.6 | 1.4 | -15.3 | 3.6 | 68.1 | 29.4 |

COUNTY: VERMILION, OH

LARE ERIC WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: BLACK RIVER | | ELYRIA, OH | | COUNTY: OH MURRAY, OHIO | | | |
|--|--|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---------------------------------------|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO Y PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. SIDEW LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) |
| CROPLAND 1 | 7141.9 10.1 | 2312.9 3.2 | 6850.9 8.4 | 7533.3 10.6 | 6879.2 9.7 | 994.9 1.4 | 711.7 10.1 |
| CROPLAND 3 | 6874.6 2.9 | 6489.4 2.7 | 6542.5 2.7 | 7200.6 3.0 | 6575.7 2.7 | 6874.6 2.9 | 622.7 2.6 |
| CROPLAND 4 | 348.3 2.0 | 348.3 2.0 | 331.8 1.9 | 364.4 2.1 | 333.1 1.9 | 145.9 0.8 | 145.9 0.8 |
| CROPLAND 5 | 182.9 1.0 | 182.9 1.0 | 174.2 1.0 | 191.5 1.1 | 174.9 1.0 | 182.9 1.0 | 177.9 0.9 |
| CROPLAND | 14597.7 6.2 | 9333.5 2.7 | 13905.3 4.0 | 15289.9 4.4 | 13962.9 4.0 | 8198.3 2.4 | 10216.5 2.9 |
| VINEYARDS AND ORCH. | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) |
| GRASSLAND AND PASTURE | 32.4 177.9 -1.8 | 32.4 (TONS) 177.9 (ACRES) | 32.4 (TONS) 177.9 (ACRES) | 266.9 (ACRES) | 266.9 (ACRES) | 266.9 (ACRES) | 266.9 (ACRES) |
| WOODLAND | 44.6 622.7 -0.7 | 44.6 (TONS) 622.7 (ACRES) | 44.6 (TONS) 622.7 (ACRES) | MISSING DATA 0.0 (ACRES) | MISSING DATA 0.0 (ACRES) | MISSING DATA 0.0 (ACRES) | MISSING DATA 0.0 (ACRES) |
| 3 YEARLY TOTAL POTENTIAL GROSS EROSION | 14674.7 3.4 | 9410.5 2.2 | 13982.3 3.3 | 15366.9 3.6 | 14039.9 3.3 | 8275.3 1.9 | 10293.5 2.4 |
| PERCENT REDUCTION: | 0.0 | 35.9 | 4.7 | -4.7 | 4.3 | 43.6 | 29.9 |

COUNTY: 16 ASHLAND, OHIO

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LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: BLACK RIVER | | ELYRIA, OH | | COUNTY: 17 MEDINA, OHIO | | | | | | | | | | | | | | | | | |
|---------------------------------------|---------------------|-------------|-------------|-------------------------|-------------|------------------|-------------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING POT-REDUCE | SOIL SPRING | FALL | WINTER | MAXIMUM | REDUCED | SOIL WENT. | EXISTING | | | | | | | | | | | | | |
| GROSS | LOSS TO T | PLOWING | PLOWING | COVER | REDUCTION | TILLAGE: | 223UP LAND | SOIL LOSS | | | | | | | | | | | | | |
| EROSION | AND EXISTING | ONLY | ONLY | CROP | TILLAGE | CHISEL PLOW AREA | | > T FACTOR | | | | | | | | | | | | | |
| (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (ACRES) | (ACRES) | | | | | | | | | | | | | |
| (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | | | | | | | | | | | | | |
| CROPLAND 1 | 42258.5 | 19243.4 | 39974.3 | 45684.9 | 41116.4 | 7994.8 | 5955.7 | 5095.7 | | | | | | | | | | | | | |
| SWG | 7.2 | 3.3 | 6.8 | 7.8 | 7.0 | 1.4 | 3.7 | 7.2 | | | | | | | | | | | | | |
| CROPLAND 2 | 27485.2 | 22371.9 | 25999.6 | 29713.9 | 26742.4 | 5194.9 | 7945.3 | 6944.6 | | | | | | | | | | | | | |
| SWG | 3.5 | 2.8 | 3.3 | 3.7 | 3.4 | .7 | 1.4 | 3.4 | | | | | | | | | | | | | |
| CROPLAND 3 | 44638.1 | 44638.1 | 42225.2 | 48257.4 | 43431.6 | 44638.1 | 16724.1 | 8.0 | | | | | | | | | | | | | |
| SWG | 2.6 | 2.6 | 2.5 | 2.9 | 2.6 | 2.6 | 2.6 | 8.0 | | | | | | | | | | | | | |
| CROPLAND 4 | 489.8 | 489.8 | 463.4 | 529.5 | 476.6 | 248.2 | 528.0 | 8.0 | | | | | | | | | | | | | |
| SWG | .8 | .8 | .7 | .9 | .8 | .4 | .4 | 8.0 | | | | | | | | | | | | | |
| CROPLAND 5 | 952.3 | 952.3 | 900.8 | 1029.5 | 926.6 | 952.3 | 1687.4 | 8.0 | | | | | | | | | | | | | |
| SWG | .6 | .6 | .6 | .6 | .6 | .6 | .6 | 8.0 | | | | | | | | | | | | | |
| CROPLAND 10 | 3298.6 | 137.8 | 3120.3 | 3566.1 | 3239.5 | 624.1 | 45.3 | 45.3 | | | | | | | | | | | | | |
| SWG | 71.9 | 3.0 | 68.0 | 77.7 | 69.9 | 13.6 | 36.4 | 71.9 | | | | | | | | | | | | | |
| CROPLAND | 119122.5 | 87833.3 | 112683.6 | 128741.2 | 115903.1 | 59657.4 | 32938.4 | | | | | | | | | | | | | | |
| VINEYARDS AND ORCH. | 3.6 | 2.7 | 3.4 | 3.9 | 3.5 | 1.8 | 2.5 | | | | | | | | | | | | | | |
| | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 160.7 | | | | | | | | | | | | | | | |
| | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 1468.2 | 1468.2 | 1468.2 | 3398.6 | 3398.6 | | | | | | | | | | | | | | | | |
| SWG | .10 | .10 | .10 | | | | | | | | | | | | | | | | | | |
| WOODLAND | 1971.3 | 1971.3 | 1971.3 | 6429.8 | 6429.8 | | | | | | | | | | | | | | | | |
| SWG | .17 | .17 | .17 | | | | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 135812.0 | 101140.2 | 128677.0 | 146514.9 | 132244.6 | 69918.2 | 65905.8 | | | | | | | | | | | | | | |
| PERCENT REDUCTION: | 2.1 | 1.5 | 2.0 | 2.2 | 2.0 | 1.1 | 1.3 | | | | | | | | | | | | | | |
| | 0.0 | 25.5 | 5.3 | -7.9 | 2.6 | 48.5 | 29.5 | | | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: BLACK RIVER | | | ELYRIA, OH | | | COUNTY: 18 CUYAHOGA, OHIO | | | | | | | | | | | | | | |
|---------------------------------------|--|---|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|-------------------------------|---------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: MISCEL PLOW AREA (TONS/ACRE) | SOIL MGMT. STORP LAND (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) | | | | | | | | | | | |
| CRUPLAND 3 | 68.6 | 68.6 | 67.5 | 78.0 | 67.1 | 68.6 | 68.6 | 68.3 | 0.0 | | | | | | | | | | | |
| 546 | 1.0 | 1.0 | 1.0 | 1.1 | 1.6 | 1.0 | 1.0 | 1.0 | 0.0 | | | | | | | | | | | |
| CRUPLAND | 68.6 | 68.6 | 67.6 | 78.0 | 67.1 | 68.6 | 68.6 | 68.3 | 0.0 | | | | | | | | | | | |
| | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | | | | | | | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | WATER AREA ONLY | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 | | | | | | | | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | | | | | | | 0.0 | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 0.0 | 0.0 (TONS) | OTHER LAND USE AREA | 45.5 (ACRES) | 45.5 (ACRES) | 45.5 (ACRES) | 45.5 (ACRES) | 45.5 (ACRES) | 0.0 | | | | | | | | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | | | | | | | 0.0 | | | | | | | | | | | |
| WOODLAND | 5.6 | 5.6 (TONS) | MISSING DATA | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 | | | | | | | | | | | |
| | 160.7 | 160.7 (ACRES) | | | | | | | 0.0 | | | | | | | | | | | |
| | 0.03 | 0.03 (TONS/ACRE) | | | | | | | 0.0 | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 74.2 | 74.2 | 73.2 | 83.6 | 72.7 | 74.2 | 74.2 | 229.5 | 0.0 | | | | | | | | | | | |
| | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | | | | | | | | | | | |
| PERCENT REDUCTIONS: | 0.0 | 0.0 | 1.3 | -12.7 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | |

COUNTY: 51 LOEWIN, OHIO

ELVARD, OH

BASIN: BLACK RIVER

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LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 62 ALL IN BASIN

ELYRIA, OH

345IN: BLACK RIVER

| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | LOSS TO T. AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION YILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) |
|---------------------------------------|---|--|--------------------------------------|-------------------------------|-------------------------------|----------------------------------|---|------------------------------------|---|
| CROPLAND 1 | 109952.7 | 45478.1 | 104686.2 | 119155.4 | 107681.2 | 20294.7 | 57182.0 | 15381.5 | 13946.7 |
| 345 | 7.2 | 3.0 | 6.8 | 7.9 | 7.0 | 1.3 | 5.7 | 7.5 | 7.5 |
| CROPLAND 2 | 51040.9 | 45172.3 | 48860.0 | 56256.0 | 50157.8 | 10764.6 | 28611.6 | 17844.1 | 7070.3 |
| 346 | 2.9 | 2.5 | 2.7 | 3.2 | 2.8 | .6 | 1.5 | 3.3 | 3.3 |
| CROPLAND 3 | 171291.4 | 170906.2 | 162829.4 | 184702.9 | 167903.9 | 171291.4 | 171291.4 | 80944.9 | 622.7 |
| 346 | 2.1 | 2.1 | 2.0 | 2.3 | 2.1 | 2.1 | 2.1 | 2.6 | 2.6 |
| CROPLAND 4 | 4111.6 | 4111.6 | 3909.4 | 4419.3 | 4030.4 | 2071.8 | 2071.8 | 3918.1 | 0.0 |
| 346 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .5 | .5 | 8.0 | 8.0 |
| CROPLAND 5 | 3496.3 | 3496.3 | 3326.5 | 3777.1 | 3427.2 | 3496.3 | 3496.3 | 4965.7 | 0.0 |
| 346 | .7 | .7 | .7 | .8 | .7 | .7 | .7 | 0.0 | 0.0 |
| CROPLAND 10 | 47353.5 | 1056.3 | 45020.3 | 50972.9 | 46546.0 | 4046.3 | 24177.9 | 505.2 | 505.2 |
| 346 | 93.7 | 2.1 | 89.1 | 100.9 | 92.1 | 15.9 | 47.9 | 93.7 | 93.7 |
| CROPLAND 11 | 387246.4 | 270212.8 | 360631.9 | 419283.6 | 379746.5 | 215965.1 | 286831.0 | 123499.5 | 123499.5 |
| 346 | 3.1 | 2.2 | 3.0 | 3.4 | 3.1 | 1.7 | 2.3 | 2.3 | 2.3 |
| VINEYARDS AND ORCH. | 74.0 | 74.0 (TONS) | 4ATER AREA ONLY | 1185.4 (ACRES) | | | | | |
| 346 | 114.8 | 114.8 (ACRES) | | | | | | | |
| 346 | .64 | .64 (TONS/ACRE) | | | | | | | |
| PASSLAND AND PASTURE | 3918.4 | 3918.4 (TONS) | OTHER LAND USE AREA | 12689.9 (ACRES) | | | | | |
| 346 | 41147.3 | 41147.3 (ACRES) | | | | | | | |
| 346 | .10 | .10 (TONS/ACRE) | | | | | | | |
| WOODLAND | 7584.0 | 6612.4 (TONS) | MISSING DATA | 44654.7 (ACRES) | | | | | |
| 346 | 39037.0 | 39037.0 (ACRES) | | | | | | | |
| 346 | .19 | .17 (TONS/ACRE) | | | | | | | |
| Summary TOTAL POTENTIAL GROSS EROSION | 486112.1 | 343435.1 | 463418.9 | 525159.0 | 476958.9 | 277301.0 | 363694.5 | 248453.3 | 248453.3 |
| PERCENT REDUCTION: | 0.0 | 29.4 | 4.7 | -8.0 | 1.9 | 43.0 | 25.2 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: PLUM CREEK | | OPERLIN, OH | | COUNTY: 51 LOPAIN, OHIO | | ALL IN BASIN | |
|---------------------------------------|---|---|--------------------------------------|--|--|---|--|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING ONLY AND EXISTING ONLY (TONS) (TONS/ACRE) | FALL PLOWING ONLY (TONS) (TONS/ACRE) | WINTER COVER CROP (TONS) (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS) (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) (TONS/ACRE) | |
| 2 CROPLAND 2 | 128.0 1.1 345 | 121.7 1.1 1.1 | 137.7 1.2 1.2 | 125.9 1.1 1.1 | 21.6 0.2 0.2 | 114.4 0.0 0.0 | |
| 3 CROPLAND 3 | 4718.3 1.6 346 | 4487.5 1.6 1.5 | 5077.1 1.7 1.5 | 4641.3 1.5 1.5 | 4718.3 1.6 1.5 | 3988.2 0.0 0.0 | |
| 4 CROPLAND 4 | 169.2 1.1 345 | 160.9 1.1 1.0 | 182.1 1.1 1.1 | 166.5 1.0 1.0 | 86.5 0.5 0.5 | 168.7 0.0 0.0 | |
| 5 CROPLAND 5 | 42.1 0.6 346 | 40.0 0.6 0.6 | 45.3 0.7 0.7 | 41.4 0.6 0.6 | 42.1 0.5 0.5 | 68.9 0.0 1.0 | |
| 6 CROPLAND 6 | 5057.6 1.5 67 | 5057.6 1.5 1.4 | 5442.4 1.6 1.6 | 4975.1 1.5 1.5 | 4968.5 1.5 1.5 | 3552.5 1.5 1.5 | |
| VINEYARDS AND ORCH. | 15.5 23.0 0.67 | 15.5 (TONS) 23.0 (ACRES) 0.67 (TONS/ACRE) | 0.0 (ACRES) | | | | |
| 7 GRASSLAND AND PASTURE | 54.4 1722.3 0.03 | 54.4 (TONS) 1722.3 (ACRES) 0.03 (TONS/ACRE) | 1171.1 (ACRES) | | | | |
| 8 WOODLAND | 31.1 688.9 0.05 | 31.1 (TONS) 688.9 (ACRES) 0.05 (TONS/ACRE) | 1768.2 (ACRES) | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 6730.8 0.9 | 6411.7 0.8 | 7237.2 1.0 | 6627.1 0.9 | 6488.8 0.9 | 7555.8 0.9 | |
| PERCENT REDUCTION: | 0.0 | 0.0 | -7.5 | 1.6 | 3.7 | 2.9 | |

LAKE ERIE WASTE-WATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: NEFF RUN | | COUNTY: 17 MEDINA, OHIO | | | | | | | | | |
|---------------------------------------|---|---|------------------------------|------------------------------|--------------------------------------|---|------------------------------------|--|--|--|--|
| | | LITCHFIELD, OH | | | | | | | | | |
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TNS/ACRE) | REDUCE LOSS TO T PLOWING AND EXISTING ONLY (TNS/ACRE) | FALL PLOWING ONLY (TNS/ACRE) | WINTER COVER CROP (TNS/ACRE) | MAXIMUM REDUCTION TILLAGE (TNS/ACRE) | REDUCED TILLAGE: CHISEL PLW AREA (TNS/ACRE) | SOIL WENT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TNS/ACRE) | | | |
| CROPLAND 1 | 99.9 | 45.9 | 94.5 | 107.9 | 97.2 | 18.9 | 59.5 | 23.0 | | | |
| 545 | 9.3 | 2.0 | 4.1 | 4.7 | 4.2 | .8 | 2.2 | 4.3 | | | |
| CROPLAND 3 | 1029.8 | 1029.8 | 974.2 | 1113.3 | 1002.0 | 1029.8 | 1023.3 | 643.0 | | | |
| 546 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.6 | 1.5 | 0.0 | | | |
| CROPLAND | 1129.7 | 1075.7 | 1068.7 | 1221.2 | 1099.2 | 1048.7 | 1080.1 | 666.0 | | | |
| | 1.7 | 1.6 | 1.6 | 1.8 | 1.7 | 1.6 | 1.5 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TNS) | 0.0 (TNS) | 0.0 (TNS) | 0.0 (TNS) | 0.0 (TNS) | 0.0 (TNS) | 0.0 | | | |
| | 0.00 | 0.00 (TNS/ACRE) | 0.00 (TNS/ACRE) | 0.00 (TNS/ACRE) | 0.00 (TNS/ACRE) | 0.00 (TNS/ACRE) | 0.00 (TNS/ACRE) | 0.0 | | | |
| GLASSLAND AND PASTURE | 13.8 | 13.8 (TNS) | 13.8 (TNS) | 13.8 (TNS) | 13.8 (TNS) | 13.8 (TNS) | 13.8 (TNS) | 0.0 | | | |
| | 275.6 | 275.6 (TNS) | 275.6 (TNS) | 275.6 (TNS) | 275.6 (TNS) | 275.6 (TNS) | 275.6 (TNS) | 0.0 | | | |
| | .05 | .05 (TNS/ACRE) | .05 (TNS/ACRE) | .05 (TNS/ACRE) | .05 (TNS/ACRE) | .05 (TNS/ACRE) | .05 (TNS/ACRE) | 0.0 | | | |
| WOODLAND | 36.9 | 36.9 (TNS) | 36.9 (TNS) | 36.9 (TNS) | 36.9 (TNS) | 36.9 (TNS) | 36.9 (TNS) | 0.0 | | | |
| | 298.5 | 298.5 (TNS) | 298.5 (TNS) | 298.5 (TNS) | 298.5 (TNS) | 298.5 (TNS) | 298.5 (TNS) | 0.0 | | | |
| | .12 | .12 (TNS/ACRE) | .12 (TNS/ACRE) | .12 (TNS/ACRE) | .12 (TNS/ACRE) | .12 (TNS/ACRE) | .12 (TNS/ACRE) | 0.0 | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 1160.4 | 1126.4 | 1119.4 | 1271.9 | 1149.9 | 1099.4 | 1131.1 | 1248.1 | | | |
| | 1.0 | .9 | .9 | 1.0 | .9 | .9 | .9 | | | | |
| PERCENT REDUCTION: | 0.0 | 4.6 | 5.2 | -7.6 | 2.6 | 6.9 | 9.2 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| SASIN | NEFF NUM | LITCHFIELD, OH | COUNTY: % LOHAIN, OHIO | EXISTING POT. REDUCE SOIL LOSS TO T. PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLW AREA (TONS) | SOIL WASH. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
|---------------------------------------|----------|----------------|------------------------|--|--------------------------|--------------------------|----------------------------------|---|------------------------------------|---------------------------------------|
| CROPLAND | 1 | 729.3 | 275.6 | 693.7 | 784.8 | 717.4 | 122.9 | 372.5 | 114.5 | 319.8 |
| 346 | 6.4 | 2.4 | 6.9 | 6.2 | 1.1 | 3.2 | | | | 6.4 |
| CROPLAND | 3 | 2956.4 | 2956.4 | 2411.8 | 3141.3 | 2408.2 | 2956.4 | 2956.4 | 1148.2 | 0.0 |
| 346 | 2.6 | 2.6 | 2.4 | 2.4 | 2.4 | 2.5 | 2.6 | 2.5 | | 0.0 |
| CROPLAND | | 3685.7 | 3232.0 | 3505.5 | 3966.1 | 3625.6 | 3079.3 | 3329.3 | 1363.5 | |
| 346 | 2.9 | 2.6 | 2.4 | 2.4 | 2.4 | 2.9 | 2.4 | 2.5 | | |
| VINEYARDS AND ORCH. | | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | |
| | | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | |
| | | 0.00 | 0.00 (TONS/ACRE) | | | | | | | |
| PASTURE AND PASTURE | | 121.0 | 121.0 (TONS) | OTHER LAND USE AREA | 0.0 (ACRES) | | | | | |
| | | 505.2 | 505.2 (ACRES) | | | | | | | |
| | | .24 | .24 (TONS/ACRE) | | | | | | | |
| WOODLAND | | 335.9 | 266.2 (TONS) | MISSING DATA | 275.6 (ACRES) | | | | | |
| | | 734.8 | 734.8 (ACRES) | | | | | | | |
| | | .46 | .36 (TONS/ACRE) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | 4598.7 | 4095.1 | 4398.7 | 4910.0 | 4532.0 | 3925.6 | 4202.0 | 2778.5 | |
| | | 1.7 | 1.5 | 1.5 | 1.4 | 1.6 | 1.4 | 1.5 | | |
| PERCENT REDUCTION: | 0.0 | 11.0 | 4.3 | -6.8 | 1.5 | 14.6 | 3.5 | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: NEFF RUN | | LITCHFIELD, OH | | COUNTY: 62 ALL IN BASIN | | | | | | | | | | | | | | | |
|---------------------------------------|-----|---------------------------------|--------|-------------------------|--------------|--------------|--------|-------------------|--------|------------------|--|-------------|--|-------------|--|--|--|--|--|
| LAND USE | | EXISTING POT-REDUCE SOIL SPRING | | FALL PLOWING | | WINTER COVER | | MAXIMUM REDUCTION | | REDUCED FILLAGE: | | SOIL MGMT. | | EXISTING | | | | | |
| GROSS | | LOSS TO 1 PLOWING | | ONLY | | CROP | | TILLAGE | | CHISEL PLOW AREA | | 3-DUP LAND | | SOIL LOSS | | | | | |
| CROSSLAND | | AND EXISTING ONLY | | (TONS) | | (TONS) | | (TONS) | | (TONS) | | (ACRES) | | > 1 FACTOR | | | | | |
| (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | | | | |
| 210PLAND | 1 | 829.2 | 321.5 | 788.1 | 892.8 | 814.6 | 141.8 | 423.2 | 137.8 | | | | | 137.8 | | | | | |
| 546 | | 6.8 | 2.3 | 5.7 | 6.5 | 5.9 | 1.0 | 3.1 | 6.0 | | | | | 6.0 | | | | | |
| 210PLAND | 3 | 3986.2 | 3986.2 | 3785.9 | 4294.7 | 3910.2 | 3986.2 | 3986.2 | 1791.2 | | | | | 0.0 | | | | | |
| 546 | | 2.2 | 2.2 | 2.1 | 2.4 | 2.2 | 2.2 | 2.2 | 2.2 | | | | | 0.0 | | | | | |
| 210PLAND | | 4815.4 | 4307.7 | 4574.0 | 5147.5 | 4724.6 | 4128.0 | 4403.4 | 1929.0 | | | | | | | | | | |
| | | 2.5 | 2.2 | 2.4 | 2.7 | 2.4 | 2.1 | 2.3 | | | | | | | | | | | |
| VINEYARDS | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | |
| AND ORCH. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| 33ASSLAND | | 134.8 | 134.8 | 134.8 | 134.8 | 134.8 | 134.8 | 134.8 | | | | | | | | | | | |
| AND PASTURE | | 788.8 | 788.8 | 788.8 | 788.8 | 788.8 | 788.8 | 788.8 | | | | | | | | | | | |
| | | .17 | .17 | .17 | .17 | .17 | .17 | .17 | | | | | | | | | | | |
| 40ODLAND | | 372.7 | 303.1 | 303.1 | MISSING DATA | 275.6 | 275.6 | 275.6 | | | | | | | | | | | |
| | | 1033.4 | 1033.3 | 1033.3 | | | | | | | | | | | | | | | |
| | | .36 | .29 | .29 | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | 5714.8 | 5169.7 | 5455.6 | 6114.3 | 5617.5 | 4976.8 | 5278.9 | 4018.8 | | | | | | | | | | |
| | | 1.4 | 1.3 | 1.4 | 1.5 | 1.4 | 1.2 | 1.3 | | | | | | | | | | | |
| PERCENT REDUCTION: | 0.0 | 9.5 | 9.5 | 4.5 | -7.0 | 1.7 | 12.9 | 7.6 | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: ROCKY | | COUNTY: 17 MEDINA, OHIO | | | | | | | | | |
|--|-------------------------------|--|--------------------------|--------------------------|----------------------------------|---|------------------------------------|---|--|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS) | POT. REDUCED LOSS TO T. PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (ACRES) | SOIL. WGT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS F FACTOR (TONS/ACRE) | | | |
| 1 CROPLAND | 8925.5 | 33248.2 | 85964.8 | 97216.7 | 87445.1 | 17012.9 | 10930.5 | 10379.5 | | | |
| 596 | 8.2 | 3.6 | 7.8 | 8.9 | 8.2 | 1.6 | 4.2 | 8.4 | | | |
| 2 CROPLAND | 8323.5 | 8313.1 | 7473.5 | 8998.4 | 8098.5 | 1574.7 | 3056.1 | 229.6 | | | |
| 596 | 2.7 | 2.7 | 2.6 | 2.3 | 2.7 | .5 | 1.1 | 3.0 | | | |
| 3 CROPLAND | 43282.3 | 43282.3 | 40942.7 | 46791.7 | 42112.4 | 43282.3 | 16625.5 | 0.0 | | | |
| 596 | 2.6 | 2.6 | 2.5 | 2.8 | 2.5 | 2.6 | 2.6 | 0.0 | | | |
| 4 CROPLAND | 86.9 | 86.9 | 82.2 | 93.9 | 84.5 | 44.0 | 91.9 | 0.0 | | | |
| 596 | .4 | .4 | .9 | 1.0 | .9 | .5 | .5 | 0.0 | | | |
| 5 CROPLAND | 1315.9 | 1315.9 | 1244.8 | 1422.6 | 1240.3 | 1315.9 | 1837.1 | 0.0 | | | |
| 596 | .7 | .7 | .7 | .8 | .7 | .7 | .7 | 0.0 | | | |
| 10 CROPLAND | 35699.0 | 1423.7 | 33769.4 | 14593.6 | 34734.2 | 6753.9 | 436.3 | 436.3 | | | |
| 596 | 81.8 | 3.3 | 77.4 | 88.5 | 79.6 | 15.5 | 41.5 | 41.8 | | | |
| 1 CROPLAND | 178633.1 | 87670.7 | 164977.3 | 193116.9 | 173805.1 | 69983.7 | 32975.5 | 10379.5 | | | |
| 596 | 5.4 | 2.7 | 5.1 | 5.9 | 5.3 | 2.1 | 3.4 | 8.4 | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS/ACRE) | 528.2 (ACRES) | | | | | | |
| 2 PASTURE AND PASTURE | 5769.3 | 5769.3 (TONS) | OTHER LAND USE AREA | 12721.7 (ACRES) | | | | | | | |
| 596 | .18 | .18 | .18 | .18 | .18 | .18 | .18 | .18 | | | |
| WOODLAND | 8995.4 | 8995.4 (TONS) | MISSING DATA | 8243.9 (ACRES) | | | | | | | |
| 596 | .47 | .47 | .47 | .47 | .47 | .47 | .47 | .47 | | | |
| SUMMARY TOTAL POTENTIAL GROSS PRODUCTION | 211883.2 | 111925.8 | 201201.1 | 227706.5 | 206502.0 | 92505.4 | 139212.0 | 92359.0 | | | |
| PERCENT REDUCTION: | 0.0 | 47.2 | 5.0 | -7.5 | 2.5 | 36.3 | 34.3 | 34.3 | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: ROCKY | | COUNTY: 18 CUYAHOGA, OHIO | | | | | | | | | |
|---------------------------------------|--|---|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | REDUCE LOSS TO T PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | | | |
| CROPLAND 1 | 1395.7 | 294.0 | 1375.5 | 1587.8 | 1365.3 | 212.4 | 91.9 | 68.9 | | | |
| SW6 | 15.2 | 3.2 | 15.0 | 17.3 | 14.9 | 7.5 | 19.0 | 19.0 | | | |
| CROPLAND 2 | 894.9 | 894.9 | 881.9 | 1018.1 | 875.5 | 136.2 | 520.0 | 0.0 | | | |
| SW6 | 1.4 | 1.4 | 1.4 | 1.6 | 1.4 | .2 | 0.0 | 0.0 | | | |
| CROPLAND 3 | 2231.1 | 2231.1 | 2198.8 | 2530.3 | 2182.6 | 2231.1 | 1960.0 | 0.0 | | | |
| SW6 | 1.2 | 1.2 | 1.2 | 1.4 | 1.2 | 1.2 | 0.0 | 0.0 | | | |
| CROPLAND | 4521.7 | 3420.0 | 4456.2 | 5194.2 | 4423.4 | 2574.7 | 2571.9 | | | | |
| WETLANDS AND ORCH. | 1.8 | 1.3 | 1.7 | 2.0 | 1.7 | 1.0 | 1.3 | | | | |
| | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 91.9 (ACRES) | | | | | | | |
| | 0.0 | 0.0 (ACRES) | | | | | | | | | |
| | 0.0 | 0.0 (TONS/ACRE) | | | | | | | | | |
| PASTURE AND PASTURE | 458.1 | 458.1 (TONS) | OTHER LAND USE AREA | 5901.6 (ACRES) | | | | | | | |
| | 3169.0 | 3169.0 (ACRES) | | | | | | | | | |
| | .14 | .14 (TONS/ACRE) | | | | | | | | | |
| WOODLAND | 1559.5 | 1559.5 (TONS) | MISSING DATA | 26798.3 (ACRES) | | | | | | | |
| | 5281.6 | 5281.6 (ACRES) | | | | | | | | | |
| | .30 | .30 (TONS/ACRE) | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 22437.9 | 18657.7 | 22213.1 | 24573.8 | 22100.6 | 15774.4 | 37820.8 | | | | |
| PERCENT REDUCTION: | 0.6 | .5 | .6 | .6 | .6 | .4 | .5 | | | | |
| | 0.0 | 16.8 | 1.0 | -9.5 | 1.5 | 29.7 | 17.3 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: ROCKY | | BEWA, OH | | COUNTY: 19 SUMMIT, OHIO | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|--|---------------------------------------|----------------------|---|---|---|---|---|---|---|---|---|
| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) | EXISTING (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) |
| | | | | | | | | | | | | | | | | | | | |
| CROPLAND | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRASSLAND AND PASTURE | 343.2 | 343.2 | 343.2 | 343.2 | 343.2 | 343.2 | 343.2 | 343.2 | 343.2 | 343.2 | 343.2 | 343.2 | 343.2 | 343.2 | 343.2 | 343.2 | 343.2 | 343.2 | 343.2 |
| WOODLAND | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 | 574.5 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | | | | | | | |
| | | 977.1 | 977.1 | 977.1 | 977.1 | 977.1 | 977.1 | 977.1 | 977.1 | 977.1 | 977.1 | 977.1 | 977.1 | 977.1 | 977.1 | 977.1 | 977.1 | 977.1 | 977.1 |
| PERCENT REDUCTIONS: | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

COUNTY: 51 LORAIN, OHIO

SECRET, ON

ANSWER: B

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LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: ROCKY | | AREA: ON | | COUNTY: 62 ALL IN BASIN | | | |
|---------------------------------------|--|---|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO FLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOUGH AREA (TONS/ACRE) | SOIL MOIST. CRIP. LAND (TONS/ACRE) |
| 210PLAND 1 | 97272.4 | 35173.9 | 92143.2 | 105243.1 | 94734.6 | 14268.4 | 11386.3 |
| 210PLAND 2 | 9927.6 | 9496.8 | 9430.0 | 10779.7 | 9471.6 | 1430.4 | 4202.3 |
| 210PLAND 3 | 53486.7 | 53486.7 | 50724.0 | 57910.0 | 52138.4 | 53486.7 | 23552.3 |
| 210PLAND 4 | 245.3 | 245.3 | 232.9 | 264.4 | 240.4 | 125.0 | 229.6 |
| 210PLAND 5 | 1427.2 | 1427.2 | 1350.6 | 1542.3 | 1349.0 | 1427.2 | 1427.2 |
| 210PLAND 10 | 35699.0 | 1423.7 | 33769.4 | 34593.6 | 34734.2 | 6753.9 | 436.3 |
| 210PLAND 10 | 81.0 | 3.3 | 77.4 | 88.5 | 79.6 | 15.5 | 41.5 |
| 210PLAND 10 | 19058.2 | 10265.6 | 187650.9 | 214333.1 | 192909.0 | 81891.6 | 92305.2 |
| VINEYARDS AND PASTURE | 138.9 | 138.9 (TONS) | JATER AREA ONLY | 757.0 (ACRES) | | | |
| BRASSLAND AND PASTURE | 6716.7 | 6716.7 (TONS) | OTHER LAND JSE AREA | 20529.3 (ACRES) | | | |
| WOODLAND | 10808.2 | 10747.8 (TONS) | MISSING DATA | 36443.0 (ACRES) | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 285305.7 | 159127.2 | 271541.4 | 306830.2 | 274495.5 | 131668.2 | 149422.3 |
| PERCENT REDUCTION: | 0.0 | 44.2 | 4.9 | -7.5 | 2.4 | 93.9 | 32.7 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: CUYAHOGA RIVER | | INDEPENDENCE, OH | | COUNTY: 17 MEDINA, OHIO | | | | | |
|---------------------------------------|--|--------------------------------|--------------------------|--------------------------|----------------------------------|---|------------------------------------|---|------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | |
| 1 CROPLAND 346 | 5136.7 | 2184.7 | 4857.2 | 5551.1 | 995.9 | 971.4 | 320.2 | 585.2 | 10.8 |
| | 9.7 | 4.0 | 9.2 | 10.5 | 9.5 | 1.8 | | | |
| 2 CROPLAND 546 | 1748.1 | 1539.0 | 1672.5 | 1911.5 | 1720.3 | 334.5 | 482.2 | 344.5 | 4.7 |
| | 3.7 | 3.2 | 3.5 | 4.0 | 3.6 | .7 | | | |
| 4 CROPLAND 546 | 16.5 | 16.5 | 15.6 | 17.8 | 16.1 | 6.4 | 23.0 | 0.8 | 0.8 |
| | .7 | .7 | .7 | .8 | .7 | .4 | | | |
| 5 CROPLAND 546 | 17.8 | 17.8 | 16.8 | 19.2 | 17.3 | 17.8 | 23.0 | 0.8 | 0.8 |
| | .8 | .8 | .7 | .8 | .8 | .5 | | | |
| 1 CROPLAND 546 | 6937.1 | 3678.0 | 6562.1 | 7499.6 | 6749.6 | 1332.1 | 1056.4 | | |
| | 6.6 | 3.5 | 6.2 | 7.1 | 6.4 | 1.3 | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 4.0 (TONS) | 23.0 (ACRES) | | | | | |
| | 0.0 | 0.0 (ACRES) | AREA ONLY | | | | | | |
| | 0.0 | 0.0 (TONS/ACRE) | | | | | | | |
| BRASSLAND AND PASTURE | 201.4 | 201.4 (TONS) | OTHER LAND | 574.1 (ACRES) | | | | | |
| | 1408.8 | 1408.8 (ACRES) | USE AREA | | | | | | |
| | .14 | .14 (TONS/ACRE) | | | | | | | |
| WOODLAND | 75.6 | 75.6 (TONS) | MISSING DATA | 790.8 (ACRES) | | | | | |
| | 413.3 | 413.3 (ACRES) | | | | | | | |
| | .18 | .18 (TONS/ACRE) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 9176.4 | 8699.4 | 9891.9 | 8937.9 | 2046.8 | 4033.3 | 3551.3 | | |
| | 2.5 | 1.4 | 2.4 | 2.7 | 2.4 | .6 | | | |
| PERCENT REDUCTION: | 0.0 | 45.2 | 5.2 | -7.6 | 2.6 | 77.7 | 47.3 | | |

LAKEL ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

WATER: CUYAHOGA RIVER INDEPENDENCE, OH

COUNTY: IN CUYAHOGA, OHIO

| LAND USE | EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER (TONS) | MAXIMUM TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) |
|--------------------------------------|--|--------------------------|------------------------------|------------------------|--|------------------------------------|---------------------------------------|
| 200PLAND 1 | 2221.5 | 1253.1 | 2189.3 | 2527.4 | 2173.2 | 338.1 | 1098.7 |
| 546 | 5.4 | 3.0 | 5.3 | 6.1 | 5.3 | .8 | 2.5 |
| 200PLAND 2 | 479.1 | 472.2 | 545.1 | 468.7 | 72.9 | 235.1 | 206.7 |
| 546 | 2.3 | 2.3 | 2.3 | 2.3 | .4 | 1.3 | 3.3 |
| 200PLAND 3 | 1250.9 | 1232.7 | 1423.1 | 1223.7 | 1250.9 | 1250.9 | 620.0 |
| 545 | 2.0 | 2.0 | 2.3 | 2.0 | 2.0 | 2.0 | 0.0 |
| 200PLAND 5 | 15.0 | 15.0 | 14.8 | 17.1 | 15.0 | 15.0 | 23.0 |
| 546 | .7 | .6 | .7 | .6 | .7 | .7 | 0.0 |
| 200PLAND 10 | 1741.4 | 68.9 | 1716.2 | 1981.2 | 265.0 | 459.1 | 23.0 |
| 546 | 75.7 | 3.0 | 74.6 | 86.1 | 74.3 | 37.3 | 75.7 |
| 200PLAND | 5707.9 | 3067.0 | 5625.2 | 6493.9 | 1941.9 | 3454.9 | 1286.0 |
| | 9.4 | 2.4 | 4.4 | 5.0 | 4.3 | 2.7 | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS/ACRE) | 323.5 (ACRES) | | |
| GRASSLAND AND PASTURE | 1833.3 | 1433.3 (TONS) | OTHER LAND 10035.0 (ACRES) | | | | |
| | 7026.8 | 7026.8 (ACRES) | USE AREA .26 (TONS/ACRE) | | | | |
| WOODLAND | 5894.7 | 5894.7 (TONS) | MISSING DATA 21438.2 (ACRES) | | | | |
| | 13961.8 | 13961.8 (ACRES) | | | | | |
| | .42 | .42 (TONS/ACRE) | | | | | |
| 300000 TOTAL POTENTIAL GROSS EROSION | 21378.5 | 26444.8 | 28165.2 | 26363.0 | 19150.3 | 22146.5 | 44112.9 |
| | .6 | .5 | .6 | .6 | .4 | .5 | |
| PERCENT REDUCTION: | 0.0 | 19.7 | .6 | -5.8 | .9 | 28.0 | 15.9 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

Basin: CUYAHOGA RIVER INDEPENDENCE, OH COUNTY: 21 GEauga, OHIO

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM PRODUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MOIST. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 7 FACTOR (ACRES) |
|---------------------------------------|--|--|-------------------------------|-------------------------------|--|---|-------------------------------------|---------------------------------------|
| WOODLAND | 373.6 | 373.6 | 165.5 | 373.6 | 170.6 | 357.0 | 229.5 | 0.0 |
| 545 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | | 0.0 |
| CROPLAND | 956.7 | 956.7 | 956.7 | 956.7 | 956.7 | 913.1 | 757.4 | 0.0 |
| 546 | 1.3 | 1.3 | 1.2 | 1.5 | 1.3 | 1.2 | | 0.0 |
| WOODLAND | 150.0 | 150.0 | 146.7 | 150.0 | 150.0 | 150.0 | 114.9 | 0.0 |
| 546 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | | 0.0 |
| CROPLAND | 7.6 | 7.6 | 7.4 | 7.6 | 7.6 | 7.6 | 45.3 | 0.0 |
| 546 | .2 | .2 | .2 | .2 | .2 | .2 | | 0.0 |
| WOODLAND | 1487.9 | 1487.9 | 1455.5 | 1487.9 | 764.9 | 1430.1 | 1144.1 | |
| 545 | 1.3 | 1.3 | 1.5 | 1.5 | 1.3 | 1.2 | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 1377.8 (ACRES) | | | | |
| 545 | 0.0 | 0.0 (ACRES) | | | | | | |
| 546 | 0.0 | 0.0 (TONS/ACRE) | | | | | | |
| WOODLAND | 642.9 | 642.9 (TONS) | OTHER LAND USE AREA | 1951.9 (ACRES) | | | | |
| 545 | 7049.8 | 7049.8 (ACRES) | | | | | | |
| 546 | .09 | .09 (TONS/ACRE) | | | | | | |
| WOODLAND | 1654.6 | 1654.6 (TONS) | MISSING DATA | 67145.1 (ACRES) | | | | |
| 545 | 8863.9 | 8863.9 (ACRES) | | | | | | |
| 546 | .19 | .19 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 18682.5 | 18682.5 | 18522.6 | 19959.3 | 15114.2 | 18397.2 | 94206.3 | |
| PERCENT REDUCTION: | 0.0 | 0.0 | .9 | -6.8 | 0.0 | 19.1 | 1.5 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CUYAHOGA RIVER | | INDEPENDENCE, OH | | COUNTY: 22 PORTAGE, OHIO | | | |
|---------------------------------------|--|--|-------------------------------|-------------------------------|---------------------------------------|---|---|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | REDUCE LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) |
| CROPLAND 1 | 15864.1 546 6.7 | 8969.1 3.8 | 15643.7 6.6 | 17516.6 7.4 | 15864.1 6.7 | 3194.8 1.4 | 2204.5 6.9 |
| CROPLAND 2 | 9088.6 546 4.3 | 7809.5 3.7 | 8962.3 4.2 | 18035.3 4.7 | 9088.6 4.3 | 1830.3 .9 | 1538.6 4.8 |
| CROPLAND 3 | 2553.5 543 2.4 | 2305.6 2.2 | 2518.0 2.4 | 2819.5 2.7 | 2553.5 2.4 | 2553.5 2.4 | 597.1 3.4 |
| CROPLAND 4 | 18.5 546 .5 | 10.5 .5 | 10.3 .4 | 11.6 .5 | 10.5 .5 | 5.5 .2 | 0.0 0.0 |
| CROPLAND 5 | 253.8 543 .5 | 253.8 .5 | 250.3 .5 | 280.2 .5 | 253.8 .5 | 253.8 .5 | 0.0 0.0 |
| CROPLAND 10 | 4145.2 546 36.1 | 298.5 2.6 | 4087.6 35.6 | 4577.0 39.9 | 4145.2 36.1 | 834.8 7.3 | 114.8 36.1 |
| CROPLAND | 31915.7 5.1 | 19647.0 3.1 | 31472.2 5.0 | 35240.2 5.6 | 31915.7 5.1 | 8672.7 1.4 | 6246.3 2.3 |
| VINEYARDS AND ORCH. | 0.0 0.00 | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 0.0 0.0 0.00 | 0.0 0.0 0.00 | 1377.8 (ACRES) | | |
| GRASSLAND AND PASTURE | 5963.9 59911.6 .10 | 5963.9 (TONS) 59911.6 (ACRES) .10 (TONS/ACRE) | 0.0 0.0 0.00 | 0.0 0.0 0.00 | 14489.5 (ACRES) | | |
| WOODLAND | 4626.7 27877.6 .17 | 4626.7 (TONS) 27877.6 (ACRES) .17 (TONS/ACRE) | MISSING DATA | MISSING DATA | 25581.2 (ACRES) | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 54069.7 5.5 | 38463.4 3.3 | 53505.5 4.4 | 58298.5 5.5 | 54069.7 5.5 | 24203.7 2.2 | 119616.4 5.3 |
| PERCENT REDUCTION: | 0.0 | 28.9 | 1.7 | -7.4 | 0.6 | 54.7 | 32.3 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

WATER: CUYAHOGA RIVER INDEPENDENCE, OH

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
COUNTY: 23 STARK, OHIO

| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | REDUCE SOIL LOSS TO T. PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOJ AREA (TONS/ACRE) | SOIL MGMT. GRADUP LAND (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) |
|---------------------------------------|---|---|-------------------------------|-------------------------------|---------------------------------------|---|--------------------------------|---|
| BARPLAND | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| BRASSLAND AND PASTURE | 179.8 1515.6 .12 | 179.8 (TONS) 1515.6 (ACRES) .12 (TONS/ACRE) | OTHER LAND USE AREA | 2135.6 (ACRES) | | | | |
| WOODLAND | 0.0 | 0.0 (TONS) | MISSING DATA | 1906.0 (ACRES) | | | | |
| JANUARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | |
| | 405.9 | 405.9 | 405.9 | 405.9 | 405.9 | 405.9 | 3421.5 | |
| PERCENT REDUCTION: | | | | | | | | |
| | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CUYAMOGA RIVER | | INDEPENDENCE, OH | | COUNTY: 62 ALL IN BASIN | | | | | | | | | |
|---------------------------------------|--|--|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|--------------------------------|---------------------------------------|--|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO FLOODING AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL REENT- STIPP LAND (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | | | | |
| 1 CROPLAND | 26622.1 | 15605.9 | 25989.3 | 29724.2 | 26355.1 | 6098.4 | 15502.3 | 4569.7 | 3054.1 | | | | |
| 546 | 5.8 | 3.4 | 5.7 | 6.5 | 5.8 | 1.3 | 3.4 | | 7.3 | | | | |
| 2 CROPLAND | 13144.8 | 11636.6 | 12868.6 | 14653.7 | 13086.6 | 3074.0 | 7709.3 | 4202.3 | 1083.0 | | | | |
| 345 | 3.1 | 2.8 | 3.1 | 3.5 | 3.1 | .7 | 1.3 | | 9.8 | | | | |
| 3 CROPLAND | 4860.3 | 4612.4 | 4775.2 | 5522.8 | 4833.1 | 4860.3 | 4860.3 | 2594.9 | 597.1 | | | | |
| 546 | 1.9 | 1.8 | 1.8 | 2.1 | 1.9 | 1.9 | 1.9 | | 3.4 | | | | |
| 4 CROPLAND | 27.0 | 27.0 | 26.0 | 29.4 | 26.6 | 13.9 | 13.9 | 45.9 | 0.0 | | | | |
| 546 | .6 | .6 | .6 | .6 | .6 | .3 | .3 | | 0.0 | | | | |
| 5 CROPLAND | 340.9 | 340.9 | 334.6 | 382.4 | 340.1 | 340.9 | 340.9 | 526.7 | 0.0 | | | | |
| 546 | .4 | .4 | .4 | .5 | .4 | .4 | .4 | | 0.0 | | | | |
| 10 CROPLAND | 7080.9 | 482.2 | 6960.7 | 8013.6 | 7043.0 | 1659.6 | 4258.7 | 183.7 | 183.7 | | | | |
| 546 | 38.5 | 2.6 | 37.9 | 43.6 | 38.3 | 9.0 | 23.2 | | 34.5 | | | | |
| 1 CROPLAND | 52076.0 | 32705.0 | 50954.4 | 58326.1 | 51764.5 | 16043.1 | 32685.5 | 12423.2 | | | | | |
| 546 | 4.2 | 2.6 | 4.1 | 4.7 | 4.2 | 1.3 | 2.5 | | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 3237.6 (ACRES) | | | | | | | | | |
| | 0.0 | 0.0 (ACRES) | 0.00 (TONS/ACRE) | | | | | | | | | | |
| BRASSLAND AND PASTURE | 18886.6 | 14886.6 (TONS) | OTHER LAND | 47557.3 (ACRES) | | | | | | | | | |
| | 13771.6 | 13771.6 (ACRES) | JSE AREA | | | | | | | | | | |
| | .14 | .14 (TONS/ACRE) | | | | | | | | | | | |
| WOODLAND | 24259.4 | 23562.5 (TONS) | MISSING DATA | 160376.5 (ACRES) | | | | | | | | | |
| | 87008.4 | 87008.4 (ACRES) | | | | | | | | | | | |
| | .28 | .27 (TONS/ACRE) | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 159619.3 | 127147.9 | 157739.1 | 176096.2 | 159097.1 | 49217.4 | 127115.4 | 397519.7 | | | | | |
| | .4 | .3 | .4 | .4 | .4 | .2 | .3 | | | | | | |
| PERCENT REDUCTION: | 0.0 | 20.3 | 1.2 | -6.0 | .3 | 37.4 | 20.4 | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: CUYAMOGA | | OLD PORTAGE, OH | | COUNTY: 19 SUMMIT, OHIO | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|---|--------------------------------------|-------------------------------|-------------------------------|--|---|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MARITIME REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WGT. GRIPP LAND AREA (ACRES) | EXISTING SOIL - JSS > 1 FACTOR (TONS/ACRE) | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| CROPLAND 1 | 259.5 | 259.5 | 251.4 | 316.2 | 259.5 | 121.6 | 263.5 | 137.8 | 0.0 | | | | | | | | | | | | |
| | 1.9 | 1.9 | 1.8 | 2.3 | 1.9 | .9 | 1.9 | | 0.0 | | | | | | | | | | | | |
| CROPLAND 2 | 191.4 | 191.4 | 185.4 | 233.2 | 191.4 | 89.7 | 198.4 | 91.9 | 0.0 | | | | | | | | | | | | |
| | 2.1 | 2.1 | 2.0 | 2.5 | 2.1 | 1.0 | 2.1 | | 0.0 | | | | | | | | | | | | |
| CROPLAND 3 | 23.4 | 23.4 | 22.7 | 28.6 | 23.4 | 23.4 | 23.4 | 45.9 | 0.0 | | | | | | | | | | | | |
| | .5 | .5 | .5 | .6 | .5 | .5 | .5 | | 0.0 | | | | | | | | | | | | |
| CROPLAND 4 | 474.3 | 474.3 | 459.5 | 578.0 | 474.3 | 239.7 | 481.3 | 275.5 | 0.0 | | | | | | | | | | | | |
| | 1.7 | 1.7 | 1.7 | 2.1 | 1.7 | .9 | 1.7 | | 0.0 | | | | | | | | | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.0 | 0.0 | | 0.0 | | | | | | | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 939.0 | 939.0 | 939.0 | 939.0 | 939.0 | 939.0 | 939.0 | | 0.0 | | | | | | | | | | | | |
| | 8218.0 | 8218.0 | 8218.0 | 8218.0 | 8218.0 | 8218.0 | 8218.0 | | 0.0 | | | | | | | | | | | | |
| | .11 | .11 | .11 | .11 | .11 | .11 | .11 | | 0.0 | | | | | | | | | | | | |
| WOODLAND | 628.0 | 628.0 | 628.0 | 628.0 | 628.0 | 628.0 | 628.0 | | 0.0 | | | | | | | | | | | | |
| | 3743.0 | 3743.0 | 3743.0 | 3743.0 | 3743.0 | 3743.0 | 3743.0 | | 0.0 | | | | | | | | | | | | |
| | .17 | .17 | .17 | .17 | .17 | .17 | .17 | | 0.0 | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 5633.1 | 5633.1 | 5592.3 | 5319.2 | 5633.1 | 4972.2 | 5632.4 | 35489.7 | | | | | | | | | | | | | |
| PERCENT REDUCTION: | 0.0 | 0.0 | .7 | -5.1 | 0.0 | 11.7 | -0.3 | | | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: CUYAHOGA | | OLD PORTAGE, OH | | COUNTY: 21 GAUGES, OHIO | | | | | | | | | | | | | | | |
|---------------------------------------|--|---|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) |
| ROADLAND 1 | 373.6 | 373.6 | 365.5 | 373.6 | 170.6 | 337.4 | 229.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ROADLAND 2 | 956.7 | 956.7 | 935.9 | 956.7 | 436.7 | 913.1 | 757.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ROADLAND 3 | 150.0 | 150.0 | 146.7 | 150.0 | 150.0 | 150.0 | 114.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ROADLAND 5 | 7.6 | 7.6 | 7.4 | 7.6 | 7.6 | 7.6 | 45.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ROADLAND | 1487.9 | 1487.9 | 1455.5 | 1487.9 | 764.9 | 1430.1 | 1148.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRASSLAND AND PASTURE | 639.4 | 639.4 | 639.4 | 639.4 | 1883.0 | 1883.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| WOODLAND | 1646.0 | 1646.0 | 1646.0 | 1646.0 | 67076.1 | 67076.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 18789.4 | 18789.4 | 18628.1 | 18789.4 | 15189.2 | 18501.5 | 83931.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PERCENT REDUCTION: | 0.0 | 0.0 | .9 | -6.9 | 19.2 | 1.3 | | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : TEST MANAGEMENT PRACTICE SCENARIOS

| 365IN: CUYAHOGA | | OLD PORTAGE, IN | | COUNTY: 22 PORTAGE, OHIO | | | |
|--|---|-------------------------------|-------------------------------|---------------------------------------|---|---|---------------------------------------|
| LAND USE | EXISTING POTENTIAL SOIL SPRING LOSS TO Y PLOUGH AND EXISTING ONLY (TONS/ACRE) | FALL FLOWING ONLY (TONS/ACRE) | JENTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION VILLAGE (TONS/ACRE) | REDUCED VILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL 1941. SOIL LOSS > T FACTOR (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
| CROPLAND 1 | 13326.4 | 8142.4 | 13141.3 | 14714.6 | 13326.4 | 2066.7 | 1906.9 |
| 546 | 6.4 | 3.9 | 6.4 | 7.1 | 6.4 | 3.4 | 6.6 |
| CROPLAND 2 | 9066.6 | 7717.7 | 8940.7 | 10011.0 | 9056.6 | 2112.6 | 1515.6 |
| 545 | 6.3 | 3.7 | 4.2 | 4.7 | 4.3 | 2.3 | 4.9 |
| CROPLAND 3 | 1494.0 | 1426.1 | 1473.3 | 1649.7 | 1494.0 | 734.4 | 321.5 |
| 546 | 2.0 | 1.9 | 2.0 | 2.2 | 2.0 | 2.3 | 3.2 |
| CROPLAND 4 | 10.5 | 10.5 | 10.5 | 11.5 | 10.5 | 23.0 | 0.0 |
| 546 | .5 | .5 | .4 | .5 | .5 | .2 | 0.0 |
| CROPLAND 5 | 219.8 | 219.8 | 216.7 | 242.7 | 219.8 | 482.2 | 0.0 |
| 546 | .5 | .5 | .4 | .5 | .5 | .3 | 0.0 |
| CROPLAND 10 | 1480.6 | 160.7 | 1468.0 | 1634.8 | 1480.6 | 45.3 | 45.9 |
| 545 | 32.3 | 3.5 | 31.8 | 35.6 | 32.3 | 17.3 | 32.3 |
| CROPLAND | 25597.9 | 17677.2 | 25242.3 | 24264.4 | 25597.9 | 14319.2 | 5465.2 |
| | 4.7 | 3.2 | 4.6 | 5.2 | 4.7 | 2.5 | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 1263.0 (ACRES) | | | |
| | 0.0 | 0.0 (ACRES) | AREA ONLY | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | | | | | |
| GRASSLAND AND PASTURE | 4760.1 | 4760.1 (TONS) | OTHER LAND | 13410.6 (ACRES) | | | |
| | 50129.2 | 50129.2 (ACRES) | USE AREA | | | | |
| | .09 | .09 (TONS/ACRE) | | | | | |
| WOODLAND | 4850.8 | 4850.8 (TONS) | MISSING DATA | 24969.4 (ACRES) | | | |
| | 25122.0 | 25122.0 (ACRES) | | | | | |
| | .16 | .16 (TONS/ACRE) | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS FROSTION | 45820.9 | 34659.8 | 44535.7 | 44599.9 | 45020.9 | 30267.1 | 185595.8 |
| | .4 | .3 | .4 | .5 | .4 | .3 | |
| PERCENT REDUCTION: | 0.0 | 23.0 | 1.0 | -7.7 | 0.0 | 32.9 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CUYAHOGA | | COUNTY: 62 ALL IN BASIN | | | | | | | | | |
|---------------------------------------|--|---|-------------------------------|--------------------------|-----------------------------|-----------------------------|------------------------------------|---|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER (TONS/ACRE) | MAXIMUM TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | | | |
| | | | | | | | | | | | |
| CROPLAND 1 | 13959.5 | 8775.5 | 13758.2 | 15469.4 | 13959.5 | 2976.0 | 2434.1 | 1986.0 | | | |
| 546 | 5.7 | 3.6 | 5.7 | 6.4 | 5.7 | 1.2 | 3.1 | 6.6 | | | |
| CROPLAND 2 | 10214.6 | 8865.7 | 10061.9 | 11367.3 | 10214.6 | 2352.4 | 2362.3 | 1515.6 | | | |
| 545 | 3.4 | 3.0 | 3.4 | 3.9 | 3.4 | .8 | 2.0 | 4.9 | | | |
| CROPLAND 3 | 1667.5 | 1599.6 | 1642.7 | 1854.3 | 1667.5 | 1667.5 | 895.6 | 321.5 | | | |
| 546 | 1.9 | 1.8 | 1.8 | 2.1 | 1.9 | 1.9 | 1.9 | 3.2 | | | |
| CROPLAND 4 | 10.5 | 10.5 | 10.3 | 11.6 | 10.5 | 5.5 | 23.0 | 0.0 | | | |
| 546 | .5 | .5 | .4 | .5 | .5 | .2 | .2 | 0.0 | | | |
| CROPLAND 5 | 227.3 | 227.3 | 224.1 | 251.6 | 227.3 | 227.3 | 628.2 | 0.0 | | | |
| 546 | .4 | .4 | .4 | .5 | .4 | .4 | .4 | 0.0 | | | |
| CROPLAND 10 | 1480.6 | 160.7 | 1460.0 | 1634.8 | 1480.6 | 298.2 | 45.3 | 45.9 | | | |
| 545 | 32.3 | 3.5 | 31.8 | 35.6 | 32.3 | 6.5 | 17.3 | 32.3 | | | |
| CROPLAND | 27560.0 | 19639.3 | 27157.2 | 30589.0 | 27560.0 | 7526.9 | 6889.1 | | | | |
| | 4.0 | 2.9 | 3.9 | 4.4 | 4.0 | 1.1 | 2.4 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 2617.8 (ACRES) | | | | | | |
| | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | | | |
| | 0.0 | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | | | | | | | | |
| PASTURE AND PASTURE | 6338.6 | 6338.6 (TONS) | 6338.6 (TONS) | 23330.8 (ACRES) | | | | | | | |
| | 65905.0 | 65905.0 (ACRES) | 65905.0 (ACRES) | | | | | | | | |
| | .10 | .10 (TONS/ACRE) | .10 (TONS/ACRE) | | | | | | | | |
| WOODLAND | 6333.6 | 6333.6 (TONS) | 6333.6 (TONS) | 114518.5 (ACRES) | | | | | | | |
| | 37614.1 | 37614.1 (ACRES) | 37614.1 (ACRES) | | | | | | | | |
| | .17 | .17 (TONS/ACRE) | .17 (TONS/ACRE) | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 81962.2 | 81141.6 | 88132.9 | 81962.2 | 41150.2 | 58881.5 | 224926.7 | | | | |
| | .4 | .4 | .4 | .4 | .2 | .3 | | | | | |
| PERCENT REDUCTION: | 0.0 | 19.7 | 1.0 | -7.5 | 0.0 | 49.8 | 29.2 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CUYAHOGA RIVER | | PENINSULA, OH | | COUNTY: 17 MERIVA, OHIO | | | | | | | | | | | | | | | | | |
|-----------------------|----------------------|---------------|-------------|-------------------------|-------------|------------------|-------------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING POT. REDUCE | SOIL SPRING | FALL | WINTER | MAXIMUM | REDUCED | SOIL MGMT. | EXISTING | | | | | | | | | | | | | |
| | LOSS TO T. PLOWING | ONLY | COVER | REDUCTION | TILLAGE: | CHISEL PLOW AREA | 230P LAND | SOIL LOSS | | | | | | | | | | | | | |
| | AND EXISTING ONLY | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (ACRES) | > T FACTOR | | | | | | | | | | | | | |
| | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | | | | | | | | | | | | | |
| 1 | 5134.7 | 2104.7 | 4457.2 | 5551.1 | 4495.9 | 971.4 | 528.2 | 505.2 | | | | | | | | | | | | | |
| 2 | 1768.1 | 1539.0 | 1672.5 | 1911.5 | 1720.3 | 334.5 | 482.2 | 344.5 | | | | | | | | | | | | | |
| 3 | 3.7 | 3.2 | 3.5 | 4.0 | 3.6 | .7 | 1.3 | 4.7 | | | | | | | | | | | | | |
| 4 | 16.5 | 16.5 | 15.5 | 17.8 | 16.1 | 8.4 | 23.0 | 0.8 | | | | | | | | | | | | | |
| 5 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 6 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 7 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 8 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 9 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 10 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 11 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 12 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 13 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 14 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 15 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 16 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 17 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 18 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 19 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 20 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 21 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 22 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 23 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 24 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 25 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 26 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 27 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 28 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 29 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 30 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 31 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 32 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 33 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 34 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 35 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 36 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 37 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 38 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 39 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 40 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 41 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 42 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 43 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 44 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 45 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 46 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 47 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 48 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 49 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 50 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 51 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 52 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 53 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 54 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 55 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 56 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 57 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 58 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 59 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 60 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 61 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 62 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 63 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 64 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 65 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 66 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 67 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 68 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 69 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 70 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 71 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 72 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 73 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 74 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 75 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 76 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 77 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 78 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 79 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 80 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 81 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 82 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 83 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 84 | 17.8 | 17.8 | 16.4 | 19.2 | 17.3 | 17.8 | 23.0 | 0.0 | | | | | | | | | | | | | |
| 85 | 17.8 | 17.8 | 16.4 | | | | | | | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY AND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT

: CUYAHOGA RIVER
PENINSULA, OH

| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | EXISTING POT. LOSS TO F. AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOUING ONLY (TONS) | FALL PLOUING ONLY (TONS) | WINTER COVER CRIP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISCL P. 1/4 AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > F FACTOR (TONS/ACRE) |
|---------------------------------------|------------------------------------|--|---------------------------------|--------------------------|--------------------------|---------------------------------------|---|------------------------------------|---|
| | | | | | | | | | |
| 22PLAND 1 | 80.3 | 68.9 | 83.1 | 95.9 | 82.5 | 12.8 | 41.5 | 23.0 | 23.0 |
| 346 | 3.7 | 3.0 | 3.6 | 4.2 | 3.6 | .6 | 1.3 | 3.7 | 3.7 |
| CROPLAND 3 | 175.2 | 172.7 | 172.7 | 195.3 | 171.4 | 175.2 | 175.2 | 68.3 | 0.0 |
| 346 | 2.5 | 2.5 | 2.5 | 2.9 | 2.5 | 2.5 | 2.5 | 0.0 | 0.0 |
| 22OPLAND | 259.5 | 244.1 | 255.8 | 295.2 | 253.9 | 188.0 | 216.3 | 91.3 | |
| | 2.8 | 2.7 | 2.8 | 3.2 | 2.8 | 2.0 | 2.4 | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (ACRES) | | | | |
| | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | |
| | 0.0 | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | | | | | |
| GRASSLAND AND PASTURE | 34.0 | 34.0 (TONS) | 34.0 (TONS) | 229.6 (ACRES) | 229.6 (ACRES) | | | | |
| | 413.3 | 413.3 (ACRES) | 413.3 (ACRES) | | | | | | |
| | .08 | .08 (TONS/ACRE) | .08 (TONS/ACRE) | | | | | | |
| WOODLAND | 79.4 | 79.4 (TONS) | 79.4 (TONS) | 298.5 (ACRES) | 298.5 (ACRES) | | | | |
| | 826.7 | 826.7 (ACRES) | 826.7 (ACRES) | | | | | | |
| | .10 | .10 (TONS/ACRE) | .10 (TONS/ACRE) | | | | | | |
| Summary Total Potential Gross Erosion | 456.5 | 451.3 | 451.3 | 500.2 | 449.8 | 568.9 | 404.2 | 1530.4 | |
| | .5 | .3 | .3 | .3 | .3 | .2 | .2 | | |
| Percent Reduction: | 0.0 | 4.1 | 1.0 | -9.6 | 1.5 | 19.2 | 11.5 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CUYAHOGA RIVER | | | | | | | | | | PENINSULA, OH | | | | | | | | | | COUNTY: 13 SUMMIT, OHIO | | | | | | | | | |
|---------------------------------------|---------------------|---|---------|---------------------------------|---------|--------------------------|---------|--------------------------|---------|----------------------------------|---------|--|---------|---------------------------------------|---------|---|---------|--|--|-------------------------|--|--|--|--|--|--|--|--|--|
| LAND USE | | EXISTING POT. REDUCT. LOSS TO T. AND EXISTING ONLY (TONS) | | SOIL SPRING PLOWING ONLY (TONS) | | FALL PLOWING ONLY (TONS) | | WINTER COVER CROP (TONS) | | MAXIMUM REDUCTION TILLAGE (TONS) | | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | | SOIL MGMT. SODUP LAND TILLAGE (ACRES) | | EXISTING SOIL LOSS > 7 FACTOR (TONS/ACRE) | | | | | | | | | | | | | |
| 1 | CROPLAND | 2650.6 | 2527.8 | 2567.7 | 3230.4 | 2450.6 | 1242.5 | 2692.0 | 872.6 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | | | | | | | | | | | | |
| 2 | CROPLAND | 532.0 | 532.0 | 515.4 | 648.0 | 532.0 | 249.4 | 540.3 | 344.5 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | | | | | | | | | | | | |
| 3 | CROPLAND | 466.6 | 466.6 | 452.0 | 568.7 | 466.6 | 466.6 | 466.6 | 459.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | |
| 4 | CROPLAND | 21.6 | 21.6 | 20.9 | 26.3 | 21.6 | 21.6 | 21.6 | 91.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | |
| 5 | CROPLAND | 45.9 | 45.9 | 419.4 | 1030.9 | 845.9 | 396.3 | 859.1 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | | | | | | | | | | | | |
| 10 | CROPLAND | 36.8 | 2.0 | 35.6 | 44.4 | 36.8 | 17.2 | 37.4 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | | | | | | | | | | | | |
| 1 | CROPLAND | 4516.7 | 3593.9 | 4375.4 | 5504.7 | 4516.7 | 2376.6 | 4579.6 | 1791.3 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | 45.9 | | | | | | | | | | | | |
| 2 | VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 137.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | |
| 3 | PASTURE AND PASTURE | 6232.2 | 6232.2 | 6232.2 | 6232.2 | 6232.2 | 6232.2 | 6232.2 | 6232.2 | 6232.2 | 6232.2 | 6232.2 | 6232.2 | 6232.2 | 6232.2 | 6232.2 | 6232.2 | | | | | | | | | | | | |
| 4 | WOODLAND | 7121.7 | 6692.7 | 6692.7 | 6692.7 | 6692.7 | 6692.7 | 6692.7 | 6692.7 | 6692.7 | 6692.7 | 6692.7 | 6692.7 | 6692.7 | 6692.7 | 6692.7 | 6692.7 | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | 27978.7 | 26533.9 | 27757.4 | 29525.5 | 27978.7 | 24628.1 | 28077.1 | 92037.5 | 92037.5 | 92037.5 | 92037.5 | 92037.5 | 92037.5 | 92037.5 | 92037.5 | 92037.5 | | | | | | | | | | | | |
| PERCENT REDUCTION: | | 0.0 | 5.2 | 0.8 | -5.5 | 0.0 | 12.0 | -1.1 | | | | | | | | | | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CUYAHOGA RIVER | | | | | | | | | | PENINSULA, OH | | | | | | | | | | COUNTY: 21 GEauga, OHIO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|-------------------------------------|--|------------------------------|--|------------------------------|--|--------------------------------------|--|---|--|------------------------------------|--|---------------------------------------|--|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| LAND USE | | EXISTING POT. GROSS EROSION (TNS/ACRE) | | REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TNS/ACRE) | | SOIL SPRING PLOWING ONLY (TNS/ACRE) | | FALL PLOWING ONLY (TNS/ACRE) | | WINTER COVER CROP (TNS/ACRE) | | MAXIMUM REDUCTION TILLAGE (TNS/ACRE) | | REDUCED TILLAGE: CHISEL P. 3D AREA (TNS/ACRE) | | SOIL MGMT. GROUP LAND AREA (ACRES) | | EXISTING SOIL LOSS > F FACTOR (ACRES) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: CUYAHOGA RIVER | | PENINSULA, OH | | COUNTY: 02 ALL IN BASIN | | | | | | | | | | | | | | | |
|---------------------------------------|---|--|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|--|------------------------------------|---------------------------------------|--------------------------------|---------------------------------------|--------------------------------|---------------------------------------|--------------------------------|---------------------------------------|--------------------------------|---------------------------------------|--|--|
| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | LOSS TO 1/2 EXISTING AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GRASS LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) | | |
| 200PLAND 1 | 21569.6 | 13217.4 | 21014.8 | 24030.5 | 21429.0 | 5081.1 | 12725.5 | 3720.1 | 2488.1 | 1868.0 | 4.8 | 321.5 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 200PLAND 2 | 12323.3 | 10745.4 | 12064.4 | 13693.9 | 12275.6 | 2946.5 | 7136.3 | 3697.1 | 1868.0 | 4.8 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 200PLAND 3 | 2285.9 | 2217.9 | 2244.7 | 2593.8 | 2282.0 | 2285.9 | 2285.9 | 1377.3 | 321.5 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 200PLAND 4 | 27.0 | 27.0 | 26.0 | 29.4 | 26.6 | 13.9 | 13.9 | 45.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 200PLAND 5 | 266.7 | 266.7 | 261.9 | 297.1 | 266.2 | 266.7 | 266.7 | 643.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 200PLAND 10 | 2326.5 | 286.7 | 2279.5 | 2665.7 | 2326.5 | 694.7 | 1648.3 | 68.9 | 68.9 | 33.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 200PLAND 10 | 33.8 | 3.0 | 33.1 | 38.7 | 33.6 | 10.1 | 23.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 200PLAND 10 | 38799.0 | 26641.1 | 37891.3 | 43310.4 | 38605.9 | 11188.8 | 24062.3 | 9332.9 | 2488.1 | 1868.0 | 4.8 | 321.5 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| VINEYARDS AND GRASS. | 0.0 | 0.0 | 0.0 | 0.0 | 2755.6 | 2755.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| GRASSLAND AND PASTURE | 11867.2 | 11867.2 | 11867.2 | 11867.2 | 27533.1 | 27533.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| WOODLAND | 12981.5 | 12552.5 | 12552.5 | 12552.5 | 126275.8 | 126275.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 113704.7 | 92055.4 | 112043.1 | 121764.2 | 113559.7 | 64379.9 | 67391.4 | 285436.0 | 2488.1 | 1868.0 | 4.8 | 321.5 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| PERCENT REDUCTION: | 0.0 | 19.0 | 1.4 | -7.1 | 43.4 | 23.1 | | | | | | | | | | | | | |

30519: CUYAMOGA RIVER

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LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CUYAHOGA RIVER | | WYOM RAPIDS, OH | | COUNTY: ALL IN BASIN | | | | | |
|---------------------------------------|--|--|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---------------------------------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO FLOODING AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLODING ONLY (TONS/ACRE) | FALL PLODING ONLY (TONS/ACRE) | WINTER COVER CRIP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOD AREA (TONS/ACRE) | SOIL MGMT. REDUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
| CROPLAND 1 | 759.5 | 649.2 | 746.0 | 954.7 | 759.5 | 248.3 | 561.0 | 298.5 | 68.9 |
| | 2.5 | 2.2 | 2.5 | 2.0 | 2.5 | .8 | 1.9 | | 5.6 |
| CROPLAND 2 | 1469.4 | 1397.1 | 1435.6 | 1643.7 | 1464.4 | 539.0 | 1103.0 | 872.6 | 114.8 |
| | 1.7 | 1.5 | 1.6 | 1.9 | 1.7 | .6 | 1.0 | | 4.4 |
| CROPLAND 3 | 346.5 | 309.8 | 300.5 | 393.1 | 346.5 | 346.5 | 346.5 | 103.7 | 45.9 |
| | 1.9 | 1.7 | 1.9 | 2.1 | 1.9 | 1.9 | 1.9 | | 3.8 |
| CROPLAND 5 | 25.2 | 25.2 | 24.8 | 28.4 | 25.2 | 25.2 | 25.2 | 91.3 | 0.0 |
| | .3 | .3 | .3 | .3 | .3 | .3 | .3 | | 0.0 |
| CROPLAND | 2595.6 | 2331.3 | 2597.9 | 2949.9 | 2595.6 | 1159.0 | 2113.7 | 106.7 | |
| | 1.8 | 1.6 | 1.8 | 2.1 | 1.8 | .8 | 1.5 | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 1331.9 (ACRES) | | | | | |
| | 0.0 | 0.0 (ACRES) | | | | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | | | | | | | |
| GRASSLAND AND PASTURE | 856.0 | 856.0 (TONS) | OTHER LAND USE AREA | 2686.7 (ACRES) | | | | | |
| | 9621.7 | 9621.7 (ACRES) | | | | | | | |
| | .09 | .09 (TONS/ACRE) | | | | | | | |
| WOODLAND | 2048.0 | 2048.0 (TONS) | MISSING DATA | 69073.9 (ACRES) | | | | | |
| | 11527.7 | 11527.7 (ACRES) | | | | | | | |
| | .18 | .18 (TONS/ACRE) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 22278.8 | 21206.6 | 22085.3 | 23797.3 | 22278.8 | 16450.7 | 20331.9 | 91670.3 | |
| | .2 | .2 | .2 | .3 | .2 | .2 | .2 | | |
| PERCENT REDUCTION: | 0.0 | 4.8 | .9 | -6.3 | 0.0 | 26.2 | 8.7 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| COUNTY: 19 SUMMIT, OHIO | | | | | | | | | |
|---------------------------------------|--|----------------------------------|-------------------------------|-------------------------------|-------------------------------|---|-------------------------------|---------------------------------------|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO FLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) | |
| WOODLAND 1 | 128.0 | 128.0 | 124.0 | 155.9 | 128.0 | 138.3 | 68.9 | 0.0 | |
| WOODLAND 2 | 191.4 | 191.4 | 185.4 | 233.2 | 191.4 | 194.4 | 91.4 | 0.0 | |
| WOODLAND 3 | 319.4 | 319.4 | 309.4 | 389.1 | 319.4 | 324.4 | 168.3 | 0.0 | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 | |
| GRASSLAND AND PASTURE | 436.4 | 436.4 | 394.7 | 3972.7 | 3972.7 | | | | |
| WOODLAND 4 | 270.1 | 270.1 | 1653.4 | 16327.0 | 16327.0 | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 3931.9 | 3931.9 | 3893.6 | 4199.0 | 3931.9 | 3951.1 | 22090.3 | | |
| PERCENT REDUCTION: | 0.0 | 0.0 | 1.0 | -6.8 | 0.0 | 16.5 | -5.5 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: LITTLE CUYAHOGA RIVER ARJCV, 1-4 CUMULATIVE 22 PORTAL, 0M17

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISPL PLOW AREA (TONS/ACRE) | SOIL WASH: 2000' LAYD AREA (ACRES) | EXISTING SOIL LOSS: 5' FACTOR (TONS/ACRE) |
|---------------------------------------|--|---|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---|
| ROADLAND 1 | 743.5 | 442.2 | 711.2 | 741.5 | 149.3 | 391.1 | 114.4 | 114.4 |
| 546 | 6.5 | 4.2 | 6.4 | 7.1 | 6.5 | 3.4 | 6.5 | 6.5 |
| ROADLAND 2 | 723.1 | 643.0 | 713.0 | 723.1 | 145.6 | 381.5 | 168.7 | 148.7 |
| 546 | 6.5 | 4.0 | 4.4 | 5.0 | 4.5 | 2.4 | 6.5 | 6.5 |
| ROADLAND 3 | 52.8 | 52.8 | 52.0 | 52.8 | 52.8 | 52.8 | 45.3 | 0.0 |
| 546 | 1.2 | 1.2 | 1.1 | 1.1 | 1.2 | 1.2 | 1.2 | 3.0 |
| ROADLAND 5 | 20.9 | 20.9 | 20.7 | 23.1 | 20.9 | 20.9 | 45.3 | 0.0 |
| 546 | .5 | .5 | .5 | .5 | .5 | .5 | .5 | 0.0 |
| ROADLAND | 1538.3 | 1198.9 | 1516.9 | 1516.5 | 368.6 | 846.7 | 367.3 | |
| 546 | 4.2 | 3.3 | 4.1 | 4.6 | 1.0 | 2.4 | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 567.4 (ACRES) | | | | |
| 546 | 0.0 | 0.0 (ACRES) | | | | | | |
| GRASSLAND AND PASTURE | 359.5 | 359.5 (TONS) | OTHER LAND USE AREA | 1538.6 (ACRES) | | | | |
| 546 | 4248.2 | 4248.2 (ACRES) | | | | | | |
| ROADLAND | 311.6 | 311.6 (TONS) | MISSING DATA | 4753.4 (ACRES) | | | | |
| 546 | 2112.6 | 2112.6 (ACRES) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 3778.3 | 3191.2 | 3733.8 | 4043.7 | 1774.2 | 2590.1 | 11981.3 | |
| PERCENT REDUCTION: | 0.0 | 15.4 | 1.0 | -7.3 | 0.0 | 52.9 | 31.3 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

WATER: LITTLE CUYAHOGA RIVER AND RM. ON COUNTY: 62 ALL IN BASIN

| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO 1 PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WASH GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) |
|---------------------------------------|--|--------------------------------|-------------------------------|---------------------------------------|---|-----------------------------------|---|
| 200PLAND 1 | 869.5 6.7 | 610.2 5.3 | 855.2 4.7 | 974.7 5.3 | 209.3 1.1 | 521.3 2.3 | 114.8 6.5 |
| 200PLAND 2 | 914.4 3.6 | 834.4 3.3 | 898.4 3.6 | 1031.6 4.2 | 235.3 .9 | 576.0 2.3 | 169.7 4.5 |
| 200PLAND 3 | 52.8 1.2 | 52.8 1.2 | 52.8 1.1 | 58.2 1.3 | 52.8 1.2 | 45.9 1.2 | 0.0 0.0 |
| 200PLAND 5 | 28.9 .5 | 28.9 .5 | 28.7 .5 | 23.1 .5 | 20.9 .5 | 45.9 .5 | 0.8 0.8 |
| 200PLAND | 1857.6 3.5 | 1518.3 2.9 | 1826.3 3.5 | 2097.6 4.0 | 518.3 3.0 | 1171.3 2.2 | 528.1 |
| VINEYARDS AND ORCH. | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 367.4 (ACRES) | | | |
| 11ASSLAVD AND PASTURE | 795.9 8198.0 | 795.9 (TONS) 8198.0 (ACRES) | 5511.2 (ACRES) | | | | |
| 4000LAND | 581.7 3766.0 | 581.7 (TONS) 3766.0 (ACRES) | 21000.5 (ACRES) | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 8694.6 7782.6 | 8616.5 7782.6 | 8616.5 7782.6 | 9312.7 7782.6 | 5095.2 7782.6 | 6849.4 7782.6 | 33572.6 |
| PERCENT REDUCTION: | 0.0 | 10.5 | 1.0 | -7.1 | 0.0 | 41.4 | 21.2 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: MUD BROOK | | AKRON, OH | | COUNTY: 19 SUMMIT, OHIO | | ALL IN BASIN | | |
|---------------------------------------|--|--------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|-------------------------------|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION AND EXISTING ONLY (TONS/ACRE) | LOSS TO T. PLOWING (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. 2100P LAND (ACRES) | EXISTING SOIL LOSS > T. FACTOR (TONS/ACRE) |
| 230PLAND 1 | 939.9 | 939.0 | 909.5 | 1148.4 | 939.0 | 939.7 | 344.3 | 0.0 |
| 346 | 2.7 | 2.7 | 2.6 | 3.3 | 2.7 | 2.5 | | 0.0 |
| 230PLAND 2 | 86.6 | 86.6 | 83.9 | 105.6 | 86.6 | 86.0 | 114.9 | 0.0 |
| 346 | .8 | .8 | .7 | .9 | .8 | .5 | | 0.0 |
| 230PLAND 3 | 381.9 | 381.9 | 369.9 | 465.4 | 381.9 | 381.3 | 344.3 | 0.0 |
| 346 | 1.1 | 1.1 | 1.1 | 1.4 | 1.1 | 1.1 | | 0.0 |
| 230PLAND 5 | 21.6 | 21.6 | 20.9 | 26.3 | 21.6 | 21.6 | 91.9 | 0.0 |
| 346 | .2 | .2 | .2 | .3 | .2 | .2 | | 0.0 |
| 230PLAND | 1829.1 | 1829.1 | 1844.3 | 1741.7 | 1829.1 | 1843.2 | 933.7 | |
| | 1.6 | 1.6 | 1.5 | 1.9 | 1.6 | 1.0 | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | | 68.9 (ACRES) | | | |
| | 0.0 | 0.0 (ACRES) | | | | | | |
| | 0.0 | 0.0 (TONS/ACRE) | | | | | | |
| 230PLAND AND PASTURE | 909.5 | 909.5 (TONS) | OTHER LAND | | 1469.7 (ACRES) | | | |
| | 9468.9 | 9468.9 (ACRES) | JSE AREA | | | | | |
| | .10 | .10 (TONS/ACRE) | | | | | | |
| WOODLAND | 667.8 | 667.8 (TONS) | MISSING DATA | | 3008.2 (ACRES) | | | |
| | 3811.9 | 3811.9 (ACRES) | | | | | | |
| | .10 | .10 (TONS/ACRE) | | | | | | |
| JANUARY TOTAL POTENTIAL GROSS EROSION | 3644.7 | 3644.7 | 3598.4 | 4023.7 | 3644.7 | 3660.2 | 17176.7 | |
| | .2 | .2 | .2 | .2 | .2 | .2 | | |
| PERCENT REDUCTION: | 0.0 | 0.0 | 1.5 | -10.4 | 0.0 | 10.1 | | |

LAKE EPIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: YELLOW CREEK | | COUNTY: 19 SUMMIT, OHIO | | | | | | | | | |
|---|------------------------------------|--|--|-------------------------------|---------------------------|--------------------------|---|-------------------------------|---|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO Y. PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CRIP (TONS) | MAXIMUM REDUCTION (TONS) | REDUCED VILLAGE: CHISEL 5-24 AREA (TONS/ACRE) | SOIL WENT. GROUP LAND (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE) | | |
| 1 CROPLAND 1 | 375.1 2.7 | 375.1 2.7 | 363.4 2.6 | 437.1 3.3 | 375.1 2.7 | 175.8 1.3 | 349.3 2.4 | 137.4 | 0.0 | | |
| 2 CROPLAND 2 | 132.1 1.9 | 132.1 1.9 | 128.0 1.9 | 161.0 2.3 | 132.1 1.9 | 61.9 .9 | 139.2 1.3 | 68.3 | 0.0 | | |
| 3 CROPLAND 3 | 507.2 2.5 | 507.2 2.5 | 491.4 2.4 | 614.1 3.0 | 507.2 2.5 | 237.7 1.1 | 515.1 2.3 | 286.7 | 0.0 | | |
| 4 VETTED AND ORCH. | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 45.9 (ACRES) | | | | | |
| 5 PASTURE AND PASTURE | 1591.3 9346.1 -17 | 1591.3 (TONS) 9346.1 (ACRES) -17 (TONS/ACRE) | 1591.3 (TONS) 9346.1 (ACRES) -17 (TONS/ACRE) | 665.9 (ACRES) | 665.9 (ACRES) | | | | | | |
| 6 WOODLAND | 1778.0 4028.6 -44 | 1658.9 (TONS) 4028.6 (ACRES) -44 (TONS/ACRE) | 1658.9 (TONS) 4028.6 (ACRES) -44 (TONS/ACRE) | 1354.8 (ACRES) | 1354.8 (ACRES) | | | | | | |
| 7 WETLAND TOTAL POTENTIAL GROSS EROSION | 4254.7 -3 | 4254.7 -3 | 4237.3 -3 | 4376.7 -3 | 4254.7 -3 | 3958.3 -3 | 4263.4 -3 | 10926.2 | | | |
| 8 PERCENT REDUCTIONS: | 0.0 | 0.0 | .4 | -2.9 | 0.0 | 7.0 | -2.2 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: YELLOW CREEK | | BOTZUM, OH | | COUNTY: 62 ALL IN BASIN | | | |
|--|--|---|---------------------------|----------------------------------|--|------------------------------------|---|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) |
| 213PLAND 1 | 5599.8 8.3 | 2479.7 3.7 | 5220.5 7.8 | 6008.2 9.0 | 1147.3 1.7 | 2903.0 4.5 | 585.2 10.0 |
| 213PLAND 2 | 1988.2 3.4 | 1671.2 3.0 | 1800.5 3.3 | 2072.5 3.8 | 396.4 .7 | 1039.2 1.9 | 344.5 4.7 |
| 213PLAND 4 | 16.5 .7 | 16.5 .7 | 15.6 .7 | 17.8 .8 | 16.1 .7 | 8.4 .4 | 23.0 0.0 |
| 213PLAND 5 | 17.8 .8 | 17.8 .8 | 16.8 .7 | 19.2 .8 | 17.3 .8 | 17.1 .3 | 23.0 0.0 |
| 213PLAND 6 | 7444.3 5.9 | 4185.2 3.3 | 7053.4 5.6 | 8117.7 6.4 | 7256.9 5.7 | 4039.4 3.2 | 1263.0 |
| VINEYARDS AND ORCH. | 8.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 68.9 (ACRES) | | |
| 213SLAND AND PASTURE | 1792.7 10746.9 .17 | 1792.7 (TONS) 10746.9 (ACRES) .17 (TONS/ACRE) | 1240.0 (ACRES) | | | | |
| 213SLAND | 1845.6 4431.9 .42 | 1734.5 (TONS) 4431.9 (ACRES) .39 (TONS/ACRE) | 2135.6 (ACRES) | | | | |
| 213SLAND TOTAL POTENTIAL GROSS EROSION | 12522.1 12522.1 | 12080.4 8839.7 .5 | 13283.0 12310.4 .7 | 12310.4 5884.7 .3 | 8674.9 53.0 30.7 | 18577.4 | |
| PERCENT REDUCTION: | 0.0 | 29.4 | 3.5 | -6.1 | 1.7 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: FURNACE RUN | | COUNTY: 19 CUYAHOGA, OHIO | | EXISTING POTENTIAL | | REDUCED | | SOIL LOSS | |
|---------------------------------------|--------------------|---------------------------|-------------------|--------------------|-------------------|-----------------|------------------|-------------|-------------|
| LAND USE | EXISTING POTENTIAL | LOSS TO PLOWING ONLY | FALL PLOWING ONLY | WINTER COVER CROP | MAXIMUM REDUCTION | REDUCED TILLAGE | CHISEL PLOW AREA | SOIL LOSS | EXISTING |
| | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) |
| ROADLAND | 85.3 | 68.9 | 83.1 | 95.9 | 82.5 | 12.8 | 41.5 | 23.3 | 23.0 |
| 346 | 3.7 | 3.0 | 3.6 | 4.2 | 3.6 | .6 | 1.1 | 3.7 | 3.7 |
| CROPLAND | 175.2 | 175.2 | 172.7 | 199.3 | 171.4 | 175.2 | 175.2 | 68.9 | 0.0 |
| 346 | 2.5 | 2.5 | 2.5 | 2.9 | 2.5 | 2.5 | 2.5 | 0.0 | 0.0 |
| CROPLAND | 259.3 | 244.1 | 255.8 | 295.2 | 253.9 | 168.0 | 216.9 | 91.9 | 0.0 |
| 346 | 2.8 | 2.7 | 2.8 | 3.2 | 2.8 | 2.0 | 2.0 | 0.0 | 0.0 |
| MEADOWS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 346 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PASTURE | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| 346 | 413.3 | 413.3 | 413.3 | 413.3 | 413.3 | 413.3 | 413.3 | 413.3 | 413.3 |
| PASTURE | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 |
| 346 | 826.7 | 826.7 | 826.7 | 826.7 | 826.7 | 826.7 | 826.7 | 826.7 | 826.7 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 456.9 | 437.6 | 451.9 | 508.2 | 449.6 | 368.9 | 489.2 | 1630.4 | 0.0 |
| PERCENT REDUCTION: | 0.0 | 4.1 | 1.0 | -9.6 | 1.5 | 19.2 | 11.5 | 0.0 | 0.0 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: FURNACE RUN | | COUNTY: 19 SUMMIT, OHIO | | | | | | | | | |
|-------------------------|--|--|--------------------------|--------------------------|----------------------------------|--|------------------------------------|---------------------------------------|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO FLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) | | | |
| 1 CROPLAND | 445.1 | 317.5 | 431.2 | 542.5 | 445.1 | 208.7 | 114.9 | 68.9 | | | |
| 546 | 3.9 | 2.8 | 3.4 | 4.7 | 3.9 | 1.8 | 5.2 | 5.2 | | | |
| 3 CROPLAND | 22.5 | 22.5 | 21.8 | 27.5 | 22.5 | 22.5 | 45.3 | 0.0 | | | |
| 546 | .5 | .5 | .5 | .6 | .5 | .5 | .5 | 0.0 | | | |
| 10 CROPLAND | 845.9 | 45.9 | 819.4 | 1030.3 | 845.9 | 396.5 | 23.0 | 23.0 | | | |
| 546 | 36.8 | 2.0 | 35.6 | 44.8 | 36.8 | 17.2 | 36.8 | 36.8 | | | |
| 1 CROPLAND | 1333.5 | 385.9 | 1272.4 | 1600.9 | 1313.5 | 621.7 | 183.7 | 183.7 | | | |
| 546 | 7.2 | 2.1 | 6.9 | 8.7 | 7.2 | 3.4 | 7.5 | 7.5 | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 | 0.0 | | | |
| 546 | 0.0 | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 | 0.0 | | | |
| 3 GRASSLAND AND PASTURE | 1815.6 | 1815.6 (TONS) | OTHER LAND USE AREA | 574.1 (ACRES) | 574.1 (ACRES) | 574.1 (ACRES) | 23.0 | 23.0 | | | |
| 546 | 5189.7 | 5189.7 (TONS/ACRE) | 5189.7 (TONS/ACRE) | 5189.7 (TONS/ACRE) | 5189.7 (TONS/ACRE) | 5189.7 (TONS/ACRE) | 36.8 | 36.8 | | | |
| 546 | .35 | .35 (TONS/ACRE) | .35 (TONS/ACRE) | .35 (TONS/ACRE) | .35 (TONS/ACRE) | .35 (TONS/ACRE) | .35 | .35 | | | |
| 4 CROPLAND | 2543.9 | 2110.5 (TONS) | MISSING DATA | 1010.4 (ACRES) | 1010.4 (ACRES) | 1010.4 (ACRES) | 1010.4 | 1010.4 | | | |
| 546 | 4018.6 | 4018.6 (TONS/ACRE) | 4018.6 (TONS/ACRE) | 4018.6 (TONS/ACRE) | 4018.6 (TONS/ACRE) | 4018.6 (TONS/ACRE) | 4018.6 | 4018.6 | | | |
| 546 | .63 | .63 (TONS/ACRE) | .63 (TONS/ACRE) | .63 (TONS/ACRE) | .63 (TONS/ACRE) | .63 (TONS/ACRE) | .63 | .63 | | | |
| 546 | 6283.3 | 6283.3 (TONS/ACRE) | 6283.3 (TONS/ACRE) | 6283.3 (TONS/ACRE) | 6283.3 (TONS/ACRE) | 6283.3 (TONS/ACRE) | 6283.3 | 6283.3 | | | |
| 546 | .6 | .6 (TONS/ACRE) | .6 (TONS/ACRE) | .6 (TONS/ACRE) | .6 (TONS/ACRE) | .6 (TONS/ACRE) | .6 | .6 | | | |
| PERCENT REDUCTION: | 0.0 | 16.4 | .7 | -5.1 | 0.0 | 12.1 | -4.4 | -4.4 | | | |

LMF ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVE: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: FURNACE RUN | | EVERETT, NY | | COUNTY: E2 ALL IN BASIN | | | |
|--------------------------------------|---|--------------------------|--------------------------|----------------------------------|--|------------------------------------|--|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING ONLY AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T. FACTOR (ACRES) |
| | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | | (TONS/ACRE) |
| CROPLAND 1 | 529.5 | 386.4 | 519.5 | 638.5 | 521.6 | 221.5 | 91.9 |
| 545 | 3.4 | 2.4 | 3.7 | 4.6 | 3.4 | 1.6 | 4.4 |
| CROPLAND 3 | 197.7 | 197.7 | 194.5 | 224.8 | 193.9 | 197.7 | 0.0 |
| 546 | 1.7 | 1.7 | 1.7 | 2.0 | 1.7 | 1.7 | 0.5 |
| CROPLAND 10 | 845.9 | 45.9 | 819.4 | 1030.9 | 845.9 | 396.5 | 23.8 |
| 546 | 36.8 | 2.0 | 35.6 | 44.8 | 36.8 | 17.2 | 36.8 |
| CROPLAND | 1573.1 | 630.0 | 1528.2 | 1896.2 | 1567.4 | 815.7 | |
| | 5.7 | 2.3 | 5.5 | 6.9 | 5.7 | 3.0 | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (ACRES) | |
| | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | |
| | 0.00 | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | | |
| GRASSLAND AND PASTURE | 1849.6 | 1849.6 (TONS) | OTHER LAND | 803.7 (ACRES) | | | |
| | 5603.1 | 5603.1 (ACRES) | USE AREA | | | | |
| | .33 | .33 (TONS/ACRE) | | | | | |
| WOODLAND | 2623.3 | 2149.8 (TONS) | MISSING DATA | 1308.9 (ACRES) | | | |
| | 4845.3 | 4845.3 (ACRES) | | | | | |
| | .54 | .45 (TONS/ACRE) | | | | | |
| ANNUAL TOTAL POTENTIAL GROSS EROSION | 6783.9 | 5725.7 | 6733.6 | 7146.5 | 6777.5 | 5934.1 | 12032.9 |
| | .6 | .5 | .6 | .5 | .6 | .5 | .5 |
| PERCENT REDUCTION: | 0.0 | 15.6 | .7 | -5.3 | .1 | 12.5 | .9 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: PRANDYWINE CREEK | | | | | | | | | | JULY 04 | | | | | | | | | | COUNTY: INDIANAPOLIS, IN | | | | | | | | | |
|---------------------------------------|--|--|------|--|--------------|---------------------------------|--------------|--------------------------|--------------|--------------------------|--------------|------------------------|--------------|--|--------------|------------------------------------|--------------|-----------------------------------|--------------|--------------------------|--------------|--|--|--|--|--|--|--|--|
| LAND USE | | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | | LOSS TO FLOWING AND EXISTING ONLY (TONS) | | SOIL SPRING PLOWING ONLY (TONS) | | FALL PLOWING ONLY (TONS) | | WINTER COVER CROP (TONS) | | MAXIMUM TILLAGE (TONS) | | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | | SOIL MGMT. GROUP LAND AREA (ACRES) | | EXISTING SOIL LOSS FACTOR (ACRES) | | (TONS/ACRE) | | | | | | | | | |
| CROPLAND | | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | |
| | | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | |
| VINEYARDS AND ORCH. | | 0.0 | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (TONS) | 0.0 (ACRES) | | | | | | | | |
| | | 0.0 | 0.0 | 0.0 (TONS/ACRE) | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | | 3.5 | 45.9 | 3.5 (TONS) | 45.9 (ACRES) | 3.5 (TONS) | 45.9 (ACRES) | 3.5 (TONS) | 45.9 (ACRES) | 3.5 (TONS) | 45.9 (ACRES) | 3.5 (TONS) | 45.9 (ACRES) | 3.5 (TONS) | 45.9 (ACRES) | 3.5 (TONS) | 45.9 (ACRES) | 3.5 (TONS) | 45.9 (ACRES) | 3.5 (TONS) | 45.9 (ACRES) | | | | | | | | |
| | | .88 | .22 | .08 (TONS/ACRE) | | | | | | | | | | | | | | | | | | | | | | | | | |
| WOODLAND | | 10.3 | 45.9 | 10.3 (TONS) | 45.9 (ACRES) | 10.3 (TONS) | 45.9 (ACRES) | 10.3 (TONS) | 45.9 (ACRES) | 10.3 (TONS) | 45.9 (ACRES) | 10.3 (TONS) | 45.9 (ACRES) | 10.3 (TONS) | 45.9 (ACRES) | 10.3 (TONS) | 45.9 (ACRES) | 10.3 (TONS) | 45.9 (ACRES) | 10.3 (TONS) | 45.9 (ACRES) | | | | | | | | |
| | | .22 | .22 | .22 (TONS/ACRE) | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | | | | | | | | |
| | | .2 | .2 | .2 | .2 | .2 | .2 | .2 | .2 | .2 | .2 | .2 | .2 | .2 | .2 | .2 | .2 | .2 | .2 | .2 | .2 | | | | | | | | |
| PERCENT REDUCTION: | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| COUNTY: 19 SUMMIT, OHIO | | | | | | | | | |
|---------------------------------------|------------------------------------|---|---|-------------------------------|-------------------------------|---------------------------------------|---|--|---------------------------------------|
| JAYE, OH | | | | | | | | | |
| BASIN: BRANDYVINE CREEK | | | | | | | | | |
| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | POT. LOSS TO T. AND EXISTING ONLY (TONS/ACRE) | REDUCE LOSS TO T. AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER PROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND CHISEL PLOW AREA (ACRES) | EXISTING SOIL LOSS > 7 FACTOR (ACRES) |
| 1 CROPLAND | 44.7 | 44.7 | 43.3 | 54.5 | 44.7 | 21.0 | 43.4 | 23.9 | 0.0 |
| 546 | 1.9 | 1.9 | 1.9 | 2.4 | 1.9 | .9 | 2.0 | | 0.0 |
| 2 CROPLAND | 126.4 | 126.4 | 122.5 | 154.1 | 126.4 | 59.3 | 129.4 | 68.9 | 0.0 |
| 545 | 1.8 | 1.8 | 1.8 | 2.2 | 1.8 | .9 | 1.9 | | 0.0 |
| 3 CROPLAND | 88.4 | 88.4 | 85.6 | 107.7 | 88.4 | 48.4 | 88.4 | 68.9 | 0.0 |
| 546 | 1.3 | 1.3 | 1.2 | 1.6 | 1.3 | 1.3 | 1.3 | | 0.0 |
| 4 CROPLAND | 259.5 | 259.5 | 251.4 | 316.3 | 259.5 | 164.7 | 262.2 | 168.3 | 0.0 |
| 546 | 1.6 | 1.6 | 1.6 | 2.0 | 1.6 | 1.0 | 1.5 | | 0.0 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| 5 CROPLAND | 717.3 | 717.3 | 717.3 | 717.3 | 717.3 | 2470.4 | 2470.4 | | 0.0 |
| AND PASTURE | 6659.4 | 6659.4 | 6659.4 | 6659.4 | 6659.4 | 6659.4 | 6659.4 | | 0.0 |
| 546 | .11 | .11 | .11 | .11 | .11 | .11 | .11 | | 0.0 |
| 6 CROPLAND | 1203.2 | 1122.4 | 1122.4 | MISSING DATA | 2401.6 | 2401.6 | 2401.6 | | 0.0 |
| 546 | 4615.7 | 4615.7 | 4615.7 | 4615.7 | 4615.7 | 4615.7 | 4615.7 | | 0.0 |
| 546 | .26 | .26 | .26 | .26 | .26 | .26 | .26 | | 0.0 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | |
| | 2714.1 | 2714.1 | 2704.0 | 2784.4 | 2714.1 | 2601.0 | 2717.4 | 14237.5 | |
| | .2 | .2 | .2 | .2 | .2 | .2 | .2 | | |
| PERCENT REDUCTION: | | | | | | | | | |
| | 0.0 | 0.0 | .4 | -2.6 | 0.0 | 4.2 | -.1 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: BRANDYWINE CREEK | | COUNTY: 62' ALL IN BASIN | | | | | | | | | |
|---------------------------------------|--|--------------------------|---------------------------|----------------------------------|--|--------------------------------|---------------------------------------|--|--|--|--|
| | | JAITÉ, OH | | | | | | | | | |
| LAND USE | EXISTING POT-REDUCED SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | JANUARY COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. SAVJJP LAND (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | | | | |
| | | | | | | | | | | | |
| CROPLAND 1 | 44.7 | 43.3 | 54.5 | 44.7 | 21.0 | 23.0 | 0.0 | | | | |
| SWG | 1.9 | 1.9 | 2.4 | 1.9 | .9 | 2.0 | 0.0 | | | | |
| CROPLAND 2 | 126.4 | 122.5 | 154.1 | 126.4 | 59.3 | 68.3 | 0.0 | | | | |
| SWG | 1.8 | 1.8 | 2.2 | 1.8 | .9 | 1.9 | 0.0 | | | | |
| CROPLAND 3 | 88.4 | 85.6 | 107.7 | 88.4 | 88.4 | 68.3 | 0.0 | | | | |
| SWG | 1.3 | 1.2 | 1.6 | 1.3 | 1.3 | 1.3 | 0.0 | | | | |
| CROPLAND | 259.5 | 251.4 | 316.3 | 259.5 | 168.7 | 160.8 | 0.0 | | | | |
| SWG | 1.6 | 1.6 | 2.0 | 1.6 | 1.0 | 1.6 | 0.0 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 0.0 (ACRES) | | | | | | | |
| SWG | 0.0 | 0.0 (TONS) | | | | | | | | | |
| GRASSLAND AND PASTURE | 728.8 | 720.8 (TONS) | OTHER LAND USE AREA | 2916.4 (ACRES) | | | | | | | |
| SWG | 6785.3 | 6705.3 (ACRES) | | | | | | | | | |
| SWG | .11 | .11 (TONS/ACRE) | | | | | | | | | |
| WOODLAND | 1213.5 | 1132.8 (TONS) | MISSING DATA | 2870.5 (ACRES) | | | | | | | |
| SWG | 4661.6 | 4661.6 (ACRES) | | | | | | | | | |
| SWG | .26 | .26 (TONS/ACRE) | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 2740.1 | 2730.0 | 2811.0 | 2740.1 | 2626.7 | 14398.2 | | | | | |
| SWG | .2 | .2 | .2 | .2 | .2 | .2 | | | | | |
| PERCENT REDUCTION: | 0.0 | .4 | -2.6 | 0.0 | 4.1 | -1.1 | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CHIPPEWA CREEK | | PRECKWISVILLE, IN | | COUNTY: INDIANAPOLIS, IN | | ALL IN BASIN | |
|-----------------------|---|--------------------------|--------------------------|----------------------------------|--|------------------------------|---|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO 7 PLOWING ONLY | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION YILLAGE (TONS) | REDUCED YILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. 2000 LAND (ACRES) | EXISTING SOIL LOSS > Y FACTOR (TONS/ACRE) |
| 1 | 295.9 | 155.2 | 291.7 | 336.7 | 45.0 | 145.4 | 23.0 |
| 2 | 82.3 | 42.3 | 81.1 | 93.6 | 12.5 | 40.5 | 9.1 |
| 3 | 191.8 | 191.8 | 189.0 | 214.2 | 191.6 | 191.6 | 0.0 |
| 4 | 1741.4 | 68.9 | 1716.2 | 1981.2 | 1703.6 | 854.1 | 0.0 |
| 5 | 75.7 | 3.0 | 74.6 | 86.1 | 74.1 | 37.3 | 23.0 |
| 6 | 2311.4 | 495.2 | 2278.0 | 2529.7 | 2261.2 | 1235.3 | 75.7 |
| 7 | 18.1 | 2.2 | 9.9 | 11.4 | 9.8 | 5.4 | |
| 8 | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | |
| 9 | 0.0 | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | | |
| 10 | 382.1 | 382.1 (TONS) | 382.1 (TONS) | 3513.4 (ACRES) | 3513.4 (ACRES) | | |
| 11 | 1768.2 | 1768.2 (ACRES) | 1768.2 (ACRES) | 3513.4 (ACRES) | 3513.4 (ACRES) | | |
| 12 | 2249.3 | 2249.3 (TONS) | 2249.3 (TONS) | 2112.6 (ACRES) | 2112.6 (ACRES) | | |
| 13 | 3766.0 | 3766.0 (ACRES) | 3766.0 (ACRES) | 2112.6 (ACRES) | 2112.6 (ACRES) | | |
| 14 | 60 | 60 (TONS/ACRE) | 60 (TONS/ACRE) | 2112.6 (ACRES) | 2112.6 (ACRES) | | |
| 15 | 6754.4 | 4276.6 | 6708.8 | 7149.4 | 6685.8 | 5285.3 | 7376.3 |
| 16 | 5.9 | 5.5 | 5.6 | 5.9 | 5.8 | 5.7 | |
| 17 | 36.7 | 36.7 | 36.7 | 36.4 | 36.4 | 21.9 | |
| 18 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: TIMKERS CREEK | | BEDFORD, OH | | COUNTY: 18 CUYAHOGA, OHIO | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|-------------------------------|-------------------------------|---------------------------------------|---|-------------------------------------|-----------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | REDUCE SOIL LOSS TO T. ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL REENT. STRIP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS (TONS/ACRE) |
| CROPLAND 1 | 983.2 | 413.3 | 690.1 | 1027.5 | 883.6 | 137.4 | 945.1 | 114.3 | 114.3 | 114.3 | 114.3 | 114.3 | 114.3 | 114.3 | 114.3 | 114.3 | 114.3 | 114.3 | 114.3 |
| 346 | 7.9 | 3.6 | 7.8 | 9.0 | 7.7 | 1.2 | 3.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| CROPLAND 2 | 223.3 | 223.3 | 220.1 | 254.0 | 218.4 | 34.0 | 110.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 |
| 345 | 1.9 | 1.9 | 1.9 | 2.2 | 1.9 | .3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| CROPLAND 3 | 862.8 | 862.8 | 850.3 | 941.6 | 844.0 | 862.8 | 862.8 | 398.4 | 398.4 | 398.4 | 398.4 | 398.4 | 398.4 | 398.4 | 398.4 | 398.4 | 398.4 | 398.4 | 398.4 |
| 346 | 2.2 | 2.2 | 2.2 | 2.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| CROPLAND 4 | 1989.3 | 1499.4 | 1960.5 | 2253.1 | 1946.0 | 1039.2 | 1012.2 | 520.3 | 520.3 | 520.3 | 520.3 | 520.3 | 520.3 | 520.3 | 520.3 | 520.3 | 520.3 | 520.3 | 520.3 |
| 346 | 3.2 | 2.4 | 3.2 | 3.7 | 3.1 | 1.7 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 275.6 (ACRES) | | | | | | | | | | | | | | |
| 346 | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | | | | | | | | | | | |
| 346 | 0.0 | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | | | | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 1278.0 | 1278.0 (TONS) | 1278.0 (TONS) | 1278.0 (TONS) | 3444.5 (ACRES) | | | | | | | | | | | | | | |
| 346 | 3329.7 | 3329.7 (ACRES) | 3329.7 (ACRES) | 3329.7 (ACRES) | | | | | | | | | | | | | | | |
| 346 | .38 | .38 (TONS/ACRE) | .38 (TONS/ACRE) | .38 (TONS/ACRE) | | | | | | | | | | | | | | | |
| WOODLAND | 1947.2 | 1947.2 (TONS) | 1947.2 (TONS) | 1947.2 (TONS) | 12790.6 (ACRES) | | | | | | | | | | | | | | |
| 346 | 5626.0 | 5626.0 (ACRES) | 5626.0 (ACRES) | 5626.0 (ACRES) | | | | | | | | | | | | | | | |
| 346 | .35 | .35 (TONS/ACRE) | .35 (TONS/ACRE) | .35 (TONS/ACRE) | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 12179.7 | 11035.4 | 12112.4 | 12819.2 | 12178.6 | 9948.8 | 10843.1 | 22366.3 | 22366.3 | 22366.3 | 22366.3 | 22366.3 | 22366.3 | 22366.3 | 22366.3 | 22366.3 | 22366.3 | 22366.3 | 22366.3 |
| PERCENT REDUCTION: | 0.0 | 9.4 | .6 | -5.3 | .8 | 18.3 | 11.3 | | | | | | | | | | | | |

COUNTY: 19 SUMMIT, OHIO

REDFORD, OH

ALSO: TINKER CREEK

235

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: TIMBERS CREEK | | COUNTY: 21 GAUGES: OHIO | | | | | | | | | |
|---------------------------------------|---|--------------------------------|-----------------------|-------------------------------------|-------------------------------------|--|-----------------------------------|--|--|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO PLOWING (TONS/ACRE) | SPRING (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) | | |
| | | | | | | | | | | | |
| TOPLAND | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| GRASSLAND AND PASTURE | 3.4 | 91.9 | 3.4 | 91.9 | 3.4 | 60.9 | 60.9 | 60.9 | 60.9 | | |
| WOODLAND | 12.5 | 160.7 | 12.5 | 160.7 | 12.5 | 148.2 | 148.2 | 148.2 | 148.2 | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 20.2 | 20.2 | 20.2 | 20.2 | 20.2 | 20.2 | 20.2 | 20.2 | 20.2 | | |
| PERCENT REDUCTION: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: TIMBERS CREEK | | BEDFORD, OH | | COUNTY: 22 PORTAGE, OHIO | | | |
|---------------------------------------|--|--|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | REDUCE SOIL LOSS TO TILLAGE ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCE TILLAGE CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GRIPP LAND AREA (ACRES) |
| CROPLAND 1 | 2537.7 | 426.7 | 2502.0 | 2537.7 | 511.1 | 1139.3 | 299.5 |
| SWG | 8.5 | 2.8 | 8.4 | 8.5 | 1.7 | 6.5 | 4.5 |
| CROPLAND 2 | 22.0 | 22.0 | 21.7 | 22.0 | 4.4 | 11.5 | 23.0 |
| SWG | 1.0 | 1.0 | .9 | 1.0 | .2 | .5 | 0.0 |
| CROPLAND 3 | 1059.5 | 879.5 | 1044.7 | 1059.5 | 1059.5 | 1059.5 | 321.5 |
| SWG | 3.3 | 2.7 | 3.2 | 3.3 | 3.3 | 3.3 | 3.7 |
| CROPLAND 5 | 34.0 | 34.0 | 33.6 | 34.0 | 34.0 | 34.0 | 68.9 |
| SWG | .5 | .5 | .5 | .5 | .5 | .5 | 0.0 |
| CROPLAND 10 | 2664.6 | 137.8 | 2627.6 | 2664.6 | 536.6 | 1486.3 | 68.9 |
| SWG | 38.7 | 2.0 | 38.1 | 38.7 | 7.0 | 28.4 | 64.9 |
| CROPLAND | 6317.8 | 1908.0 | 6250.0 | 6317.8 | 2145.6 | 3950.7 | 700.9 |
| SWG | 8.1 | 2.4 | 8.0 | 8.1 | 2.7 | 4.5 | 4.5 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 114.8 (ACRES) | | |
| | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | |
| | 0.0 | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | | | |
| PASTURE AND PASTURE | 1203.8 | 1203.8 (TONS) | 1203.8 (TONS) | 1203.8 (TONS) | 1079.3 (ACRES) | | |
| SWG | 9782.9 | 9782.9 (ACRES) | 9782.9 (ACRES) | 9782.9 (ACRES) | | | |
| | .12 | .12 (TONS/ACRE) | .12 (TONS/ACRE) | .12 (TONS/ACRE) | | | |
| WOODLAND | 567.9 | 567.9 (TONS) | 567.9 (TONS) | 567.9 (TONS) | 2296.3 (ACRES) | | |
| SWG | 2755.6 | 2755.6 (ACRES) | 2755.6 (ACRES) | 2755.6 (ACRES) | | | |
| | .21 | .21 (TONS/ACRE) | .21 (TONS/ACRE) | .21 (TONS/ACRE) | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 9884.2 | 4384.7 | 9361.3 | 10255.9 | 4592.7 | 6591.9 | 15615.1 |
| PERCENT REDUCTION: | 0.0 | 54.6 | 1.1 | -8.1 | 0.0 | 30.3 | |

[illegible]

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: PEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: BIG CREEK | | CLEVELAND, OH | | COUNTY: 19 CUYAHOGA, OHIO | | ALL IN BASIN | |
|---|--|---|-------------------------------|---------------------------------------|---|-------------------------------|---------------------------------------|
| LAND USE | EXISTING POTENTIAL GROSS EMISSIONS AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CRIP (TONS/ACRE) | MAXIMUM REDUCTION VILLAGE (TONS/ACRE) | REDUCED TILLAGE: MISCEL PLOD AREA (TONS/ACRE) | SOIL MGMT. 343JP LAND (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
| CROPLAND | 89.3 0.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.0 0.0 | 0.0 |
| VINEYARDS AND ORCH. | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | 0.0 (TONS) 0.0 (ACRES) | 0.0 (ACRES) | | | |
| GRASSLAND AND PASTURE | 522.2 1869.0 .28 | 522.2 (TONS) 1869.0 (ACRES) .28 (TONS/ACRE) | 2112.6 (ACRES) | | | | |
| WOODLAND | 895.3 1803.0 .45 | 895.3 (TONS) 1803.0 (ACRES) .45 (TONS/ACRE) | MISSING DATA | 18164.1 (ACRES) | | | |
| SUMMARY TOTAL POTENTIAL GROSS EMISSIONS | | 8003.7 | 8003.7 | 8003.7 | 8003.7 | 21307.1 | |
| PERCENT REDUCTION: | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: EUCLID CREEK | | EUCLID OH | | COUNTY: IN CUYAHOGA, OHIO | | | |
|---|--|---|------------------------------|------------------------------|--------------------------------------|--|------------------------------------|
| LAND USE | EXISTING POT. GROSS EROSION (TNS/ACRE) | LOSS TO T. AND EXISTING ONLY (TNS/ACRE) | FALL PLOWING ONLY (TNS/ACRE) | WINTER COVER CROP (TNS/ACRE) | MAXIMUM REDUCTION FILLAGE (TNS/ACRE) | REDUCED FILLAGE: CHISEL PLOW AREA (TNS/ACRE) | SOIL WENT. GROUP LAND AREA (ACRES) |
| 30PLAND 3 | 60.9 | 60.9 | 67.9 | 67.4 | 68.9 | 68.9 | 91.9 |
| 345 | .7 | .7 | .7 | .9 | .7 | .7 | 0.0 |
| 30PLAND | 60.9 | 60.9 | 67.9 | 67.4 | 68.9 | 68.9 | 91.9 |
| 345 | .7 | .7 | .7 | .9 | .7 | .7 | 0.0 |
| 31VEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32BRASSLAND AND PASTURE | 625.3 | 625.3 | 625.3 | 2434.1 | 2434.1 | 2434.1 | 2434.1 |
| 3300LAND | 471.5 | 471.5 | 471.5 | 7922.4 | 7922.4 | 7922.4 | 7922.4 |
| 34JANUARY TOTAL POTENTIAL GROSS EROSION | 1768.2 | 1768.2 | 1768.2 | 1768.2 | 1768.2 | 1768.2 | 1768.2 |
| 35PERCENT REDUCTION: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: EUCLID CREEK | | EUCLID, OH | | COUNTY: CUYAHOGA | | LAKE, OHIO | |
|---------------------------------------|--|-------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|--------------------------------|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MOIST. GROUP LAND (ACRES) |
| 2 CROPLAND | 145.1 | 137.8 | 143.4 | 139.2 | 17.8 | 62.1 | 45.9 |
| 546 | 3.2 | 3.0 | 3.1 | 3.4 | .4 | 1.4 | 3.2 |
| 3 CROPLAND | 608.8 | 442.2 | 601.7 | 543.9 | 608.8 | 608.8 | 160.7 |
| 546 | 3.8 | 3.0 | 3.7 | 4.3 | 3.8 | 3.8 | 3.8 |
| 5 CROPLAND | 18.6 | 18.4 | 18.4 | 17.8 | 18.6 | 18.6 | 23.8 |
| 546 | .8 | .8 | .8 | .8 | .8 | .8 | 8.0 |
| 1 CROPLAND | 772.5 | 638.4 | 763.5 | 740.9 | 645.2 | 690.2 | 229.5 |
| 546 | 3.4 | 2.8 | 3.3 | 3.8 | 3.2 | 3.0 | 3.0 |
| 4 VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 0.0 (ACRES) | | |
| | 0.00 | 0.00 (TONS/ACRE) | 0.00 (TONS/ACRE) | | | | |
| 3 GRASSLAND AND PASTURE | 6.7 | 6.7 (TONS) | 6.7 (TONS) | 597.1 (ACRES) | | | |
| | 119.8 | 119.8 (ACRES) | 119.8 (ACRES) | | | | |
| | .06 | .06 (TONS/ACRE) | .06 (TONS/ACRE) | | | | |
| 4 WOODLAND | 48.8 | 48.8 (TONS) | 48.8 (TONS) | 91.9 (ACRES) | | | |
| | 505.2 | 505.2 (ACRES) | 505.2 (ACRES) | | | | |
| | .10 | .10 (TONS/ACRE) | .10 (TONS/ACRE) | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 917.6 | 769.2 | 907.6 | 842.5 | 776.5 | 826.4 | 941.5 |
| PERCENT REDUCTION: | 1.0 | .8 | 1.0 | .9 | .8 | .9 | |
| | 0.0 | 16.2 | 1.1 | 3.8 | 15.4 | 9.9 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 62 ALL IN BASIN

EUCLED, OH

345IV: EUCLED CREEK

| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) |
|---------------------------------------|---|---|-------------------------------|-------------------------------|-----------------------------|---|------------------------------------|---------------------------------------|
| 230PLAND 2 | 145.1 | 137.8 | 143.4 | 139.2 | 17.8 | 62.8 | 65.3 | 45.9 |
| 346 | 3.2 | 3.8 | 3.1 | 3.0 | .4 | 1.4 | 3.2 | 3.2 |
| 230PLAND 3 | 677.8 | 551.1 | 669.6 | 651.3 | 677.8 | 677.3 | 232.6 | 160.7 |
| 346 | 2.7 | 2.2 | 2.7 | 2.6 | 2.7 | 2.7 | 3.6 | 3.6 |
| 230PLAND 5 | 18.6 | 18.6 | 18.4 | 17.8 | 18.6 | 18.5 | 23.0 | 0.8 |
| 346 | .8 | .8 | .8 | .9 | .8 | .8 | 0.8 | 0.8 |
| 230PLAND | 841.5 | 787.5 | 831.4 | 808.3 | 719.2 | 759.2 | 321.3 | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | | | |
| BRASSLAND AND PASTURE | 632.8 | 632.8 (TONS) | 1182.2 (ACRES) | 3031.2 (ACRES) | | | | |
| WOODLAND | 528.2 | 528.2 (TONS) | MISSING DATA | 801.2 (ACRES) | | | | |
| | 2273.4 | 2273.4 (ACRES) | | | | | | |
| | .23 | .23 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 6315.4 | 5891.0 | 6283.4 | 6210.3 | 5912.2 | 6059.7 | 11711.3 | |
| PERCENT REDUCTION: | 8.0 | 6.7 | .5 | -5.5 | 1.7 | 6.4 | 0.1 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CHAGIN | | COUNTY: IN CUYAHOGA, OHIO | | | | | | | | | |
|---------------------------------------|--|---|-------------------------------|-------------------------------|---------------------------------------|---|-------------------------------|---|--------|--------|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | REDUCE LOSS TO TILLAGE ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM TILLAGE REDUCTION (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WASH: GROUP LAND (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | | | |
| | | | | | | | | | | | |
| 1. CROPLAND | 1309.5 | 621.2 | 1290.5 | 1489.8 | 1281.0 | 199.3 | 643.3 | 166.7 | 137.8 | 9.0 | |
| 346 | 8.1 | 3.9 | 8.0 | 9.3 | 8.0 | 1.2 | 8.0 | 8.0 | 8.0 | 8.0 | |
| 2. CROPLAND | 365.1 | 365.1 | 359.8 | 415.4 | 357.2 | 53.6 | 179.3 | 229.5 | 0.0 | 0.0 | |
| 346 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | .2 | .4 | .4 | .4 | .4 | |
| 3. CROPLAND | 877.7 | 877.7 | 865.0 | 998.5 | 858.6 | 477.7 | 877.7 | 436.3 | 0.0 | 0.0 | |
| 346 | 2.0 | 2.0 | 2.0 | 2.3 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | |
| 5. CROPLAND | 52.1 | 52.1 | 51.3 | 59.3 | 51.0 | 52.1 | 52.1 | 160.7 | 0.0 | 0.0 | |
| 346 | .3 | .3 | .3 | .4 | .3 | .3 | .3 | .3 | .3 | .3 | |
| 6. CROPLAND | 2684.4 | 1922.1 | 2566.6 | 2963.0 | 2547.8 | 1184.7 | 1753.8 | 987.3 | 1.3 | 1.3 | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 252.6 | 252.6 | 252.6 | 252.6 | 252.6 | 252.6 | |
| 7. PASTURE AND PASTURE | 969.1 | 969.1 | 969.1 | 969.1 | 9116.5 | 9116.5 | 9116.5 | 9116.5 | 9116.5 | 9116.5 | |
| 346 | 3766.0 | 3766.0 | 3766.0 | 3766.0 | 3766.0 | 3766.0 | 3766.0 | 3766.0 | 3766.0 | 3766.0 | |
| 8. PASTURE | 4712.8 | 4712.8 | 4712.8 | 4712.8 | 4712.8 | 4712.8 | 4712.8 | 4712.8 | 4712.8 | 4712.8 | |
| 346 | 9231.3 | 9231.3 | 9231.3 | 9231.3 | 9231.3 | 9231.3 | 9231.3 | 9231.3 | 9231.3 | 9231.3 | |
| 9. PASTURE | 4712.8 | 4712.8 | 4712.8 | 4712.8 | 4712.8 | 4712.8 | 4712.8 | 4712.8 | 4712.8 | 4712.8 | |
| 346 | 9231.3 | 9231.3 | 9231.3 | 9231.3 | 9231.3 | 9231.3 | 9231.3 | 9231.3 | 9231.3 | 9231.3 | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 15388.9 | 14121.7 | 15318.7 | 16054.9 | 15283.8 | 12752.3 | 13811.0 | 25971.3 | .5 | .5 | |
| PERCENT REDUCTION: | 8.0 | 8.2 | .5 | -4.3 | .7 | 17.1 | 10.3 | | | | |

LAKE ERIE WASTE-WATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CHAGIN | | COUNTY: 20 LAKE, ONT | | | | | | | | | |
|---------------|--|---|--------------------------|--------------------------|----------------------------------|---|--------------------------|-----------------------------------|--------|------|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | SOIL SPRING LOSS TO TILLAGE ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (ACRES) | SOIL REENT. AREA (ACRES) | EXISTING SILL LOSS FACTOR (ACRES) | | | |
| 1 | 6242.6 | 2625.2 | 6169.6 | 7345.7 | 5987.1 | 766.6 | 2781.3 | 1149.2 | 328.2 | 9.8 | |
| 2 | 2183.9 | 1555.9 | 2079.3 | 2374.6 | 2417.6 | 254.4 | 910.3 | 328.2 | 436.3 | 4.3 | |
| 3 | 4435.8 | 3972.1 | 4363.9 | 5806.5 | 4254.2 | 4435.8 | 4435.3 | 1469.7 | 1248.0 | 1.4 | |
| 4 | 198.3 | 198.3 | 196.0 | 223.8 | 190.2 | 198.3 | 198.3 | 436.3 | 0.0 | 0.0 | |
| 5 | 19918.8 | 711.9 | 19677.1 | 22471.5 | 19094.9 | 2445.1 | 8616.3 | 229.6 | 229.6 | 86.7 | |
| 6 | 32098.6 | 9063.4 | 32505.9 | 37122.1 | 31544.2 | 4104.2 | 16862.1 | 3412.8 | | | |
| 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| 8 | 716.8 | 716.8 | 716.8 | 3191.9 | 3191.9 | 3191.9 | 3191.9 | 19547.9 | | | |
| 9 | 8656.6 | 8656.6 | 8656.6 | 1146.2 | 1146.2 | 1146.2 | 1146.2 | 37.3 | | | |
| 10 | 11160.2 | 11160.2 | 11160.2 | 78 | 78 | 78 | 78 | | | | |
| 11 | 44895.7 | 19547.9 | 44895.7 | 44895.7 | 44895.7 | 44895.7 | 44895.7 | 19547.9 | | | |
| 12 | 2.3 | 1.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 1.4 | | | |
| 13 | 56.4 | 56.4 | 56.4 | -10.0 | 56.4 | 56.4 | 56.4 | 37.3 | | | |
| 14 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |

COUNTRY: 21 SERUBA, MID

MC 448106711

ASSIGNMENT: CHAIRMAN

245

LAK ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CHAGRIN | | COUNTY: 22 PORTAGE, OHIO | | | | | | | | | |
|---------------------------------------|------------------------------------|--|-------------------------------|-------------------------------|---------------------------------------|--|---|---------------------------------------|--|--|--|
| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | POT. REDUCE LOSS TO PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND TILLAGE PLOW AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | | | |
| 1 CROPLAND | 645.7 | 286.7 | 636.7 | 712.9 | 645.7 | 130.0 | 68.9 | 68.9 | | | |
| 346 | 9.4 | 3.0 | 9.2 | 18.3 | 9.4 | 1.9 | 4.3 | 3.4 | | | |
| 2 CROPLAND | 316.4 | 312.0 | 312.0 | 316.4 | 316.4 | 316.4 | 114.3 | 0.0 | | | |
| 5 | 2.8 | 2.8 | 2.7 | 3.0 | 2.8 | 2.8 | 2.3 | 0.0 | | | |
| 3 CROPLAND | 13.1 | 13.1 | 12.9 | 14.5 | 13.1 | 13.1 | 23.0 | 0.0 | | | |
| 5 | .6 | .6 | .6 | .6 | .6 | .6 | .5 | 0.0 | | | |
| 1 CROPLAND | 975.2 | 536.2 | 961.6 | 1076.8 | 975.2 | 459.5 | 670.5 | 206.7 | | | |
| 4 | 4.7 | 2.6 | 4.7 | 5.2 | 4.7 | 2.2 | 3.2 | | | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 23.0 (ACRES) | | | | | | |
| 5 | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | | | |
| 6 | 0.0 | 0.0 (TONS/ACRE) | | | | | | | | | |
| GRASSLAND AND PASTURE | 641.8 | 613.2 | 613.2 | 613.2 | 1010.4 (ACRES) | | | | | | |
| 1 | 10 | 10 | 10 | 10 | | | | | | | |
| 2 | 10 | 10 | 10 | 10 | | | | | | | |
| 3 | 10 | 10 | 10 | 10 | | | | | | | |
| 4 | 10 | 10 | 10 | 10 | | | | | | | |
| 5 | 10 | 10 | 10 | 10 | | | | | | | |
| 6 | 10 | 10 | 10 | 10 | | | | | | | |
| 7 | 10 | 10 | 10 | 10 | | | | | | | |
| 8 | 10 | 10 | 10 | 10 | | | | | | | |
| 9 | 10 | 10 | 10 | 10 | | | | | | | |
| 10 | 10 | 10 | 10 | 10 | | | | | | | |
| 11 | 10 | 10 | 10 | 10 | | | | | | | |
| 12 | 10 | 10 | 10 | 10 | | | | | | | |
| 13 | 10 | 10 | 10 | 10 | | | | | | | |
| 14 | 10 | 10 | 10 | 10 | | | | | | | |
| 15 | 10 | 10 | 10 | 10 | | | | | | | |
| 16 | 10 | 10 | 10 | 10 | | | | | | | |
| 17 | 10 | 10 | 10 | 10 | | | | | | | |
| 18 | 10 | 10 | 10 | 10 | | | | | | | |
| 19 | 10 | 10 | 10 | 10 | | | | | | | |
| 20 | 10 | 10 | 10 | 10 | | | | | | | |
| 21 | 10 | 10 | 10 | 10 | | | | | | | |
| 22 | 10 | 10 | 10 | 10 | | | | | | | |
| 23 | 10 | 10 | 10 | 10 | | | | | | | |
| 24 | 10 | 10 | 10 | 10 | | | | | | | |
| 25 | 10 | 10 | 10 | 10 | | | | | | | |
| 26 | 10 | 10 | 10 | 10 | | | | | | | |
| 27 | 10 | 10 | 10 | 10 | | | | | | | |
| 28 | 10 | 10 | 10 | 10 | | | | | | | |
| 29 | 10 | 10 | 10 | 10 | | | | | | | |
| 30 | 10 | 10 | 10 | 10 | | | | | | | |
| 31 | 10 | 10 | 10 | 10 | | | | | | | |
| 32 | 10 | 10 | 10 | 10 | | | | | | | |
| 33 | 10 | 10 | 10 | 10 | | | | | | | |
| 34 | 10 | 10 | 10 | 10 | | | | | | | |
| 35 | 10 | 10 | 10 | 10 | | | | | | | |
| 36 | 10 | 10 | 10 | 10 | | | | | | | |
| 37 | 10 | 10 | 10 | 10 | | | | | | | |
| 38 | 10 | 10 | 10 | 10 | | | | | | | |
| 39 | 10 | 10 | 10 | 10 | | | | | | | |
| 40 | 10 | 10 | 10 | 10 | | | | | | | |
| 41 | 10 | 10 | 10 | 10 | | | | | | | |
| 42 | 10 | 10 | 10 | 10 | | | | | | | |
| 43 | 10 | 10 | 10 | 10 | | | | | | | |
| 44 | 10 | 10 | 10 | 10 | | | | | | | |
| 45 | 10 | 10 | 10 | 10 | | | | | | | |
| 46 | 10 | 10 | 10 | 10 | | | | | | | |
| 47 | 10 | 10 | 10 | 10 | | | | | | | |
| 48 | 10 | 10 | 10 | 10 | | | | | | | |
| 49 | 10 | 10 | 10 | 10 | | | | | | | |
| 50 | 10 | 10 | 10 | 10 | | | | | | | |
| 51 | 10 | 10 | 10 | 10 | | | | | | | |
| 52 | 10 | 10 | 10 | 10 | | | | | | | |
| 53 | 10 | 10 | 10 | 10 | | | | | | | |
| 54 | 10 | 10 | 10 | 10 | | | | | | | |
| 55 | 10 | 10 | 10 | 10 | | | | | | | |
| 56 | 10 | 10 | 10 | 10 | | | | | | | |
| 57 | 10 | 10 | 10 | 10 | | | | | | | |
| 58 | 10 | 10 | 10 | 10 | | | | | | | |
| 59 | 10 | 10 | 10 | 10 | | | | | | | |
| 60 | 10 | 10 | 10 | 10 | | | | | | | |
| 61 | 10 | 10 | 10 | 10 | | | | | | | |
| 62 | 10 | 10 | 10 | 10 | | | | | | | |
| 63 | 10 | 10 | 10 | 10 | | | | | | | |
| 64 | 10 | 10 | 10 | 10 | | | | | | | |
| 65 | 10 | 10 | 10 | 10 | | | | | | | |
| 66 | 10 | 10 | 10 | 10 | | | | | | | |
| 67 | 10 | 10 | 10 | 10 | | | | | | | |
| 68 | 10 | 10 | 10 | 10 | | | | | | | |
| 69 | 10 | 10 | 10 | 10 | | | | | | | |
| 70 | 10 | 10 | 10 | 10 | | | | | | | |
| 71 | 10 | 10 | 10 | 10 | | | | | | | |
| 72 | 10 | 10 | 10 | 10 | | | | | | | |
| 73 | 10 | 10 | 10 | 10 | | | | | | | |
| 74 | 10 | 10 | 10 | 10 | | | | | | | |
| 75 | 10 | 10 | 10 | 10 | | | | | | | |
| 76 | 10 | 10 | 10 | 10 | | | | | | | |
| 77 | 10 | 10 | 10 | 10 | | | | | | | |
| 78 | 10 | 10 | 10 | 10 | | | | | | | |
| 79 | 10 | 10 | 10 | 10 | | | | | | | |
| 80 | 10 | 10 | 10 | 10 | | | | | | | |
| 81 | 10 | 10 | 10 | 10 | | | | | | | |
| 82 | 10 | 10 | 10 | 10 | | | | | | | |
| 83 | 10 | 10 | 10 | 10 | | | | | | | |
| 84 | 10 | 10 | 10 | 10 | | | | | | | |
| 85 | 10 | 10 | 10 | 10 | | | | | | | |
| 86 | 10 | 10 | 10 | 10 | | | | | | | |
| 87 | 10 | 10 | 10 | 10 | | | | | | | |
| 88 | 10 | 10 | 10 | 10 | | | | | | | |
| 89 | 10 | 10 | 10 | 10 | | | | | | | |
| 90 | 10 | 10 | 10 | 10 | | | | | | | |
| 91 | 10 | 10 | 10 | 10 | | | | | | | |
| 92 | 10 | 10 | 10 | 10 | | | | | | | |
| 93 | 10 | 10 | 10 | 10 | | | | | | | |
| 94 | 10 | 10 | 10 | 10 | | | | | | | |
| 95 | 10 | 10 | 10 | 10 | | | | | | | |
| 96 | 10 | 10 | 10 | 10 | | | | | | | |
| 97 | 10 | 10 | 10 | 10 | | | | | | | |
| 98 | 10 | 10 | 10 | 10 | | | | | | | |
| 99 | 10 | 10 | 10 | 10 | | | | | | | |
| 100 | 10 | 10 | 10 | 10 | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 2694.8 | 2259.1 | 2680.7 | 2800.3 | 2694.8 | 2153.5 | 2373.3 | 11298.1 | | | |
| PERCENT REDUCTION: | 0.0 | 16.9 | .5 | -3.9 | 0.0 | 19.9 | 11.7 | | | | |

LAKE EPC WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CHAGRIN | | WILLOUGHBY, OH | | COUNTY: 42 ALL IN BASIN | | | |
|--|--|-----------------------------------|----------------------------------|---|---|--|---|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CRP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE CHISEL - 3/4 AREA (TONS) | SOIL MGMT. 300P LAND AREA (ACRES) | EXISTING SOIL LOSS BY FACTOR (ACRES) |
| CROPLAND 1 | 8924.7 | 4155.3 | 8807.9 | 10101.8 | 1427.8 | 1722.3 | 803.7 |
| SWG | 5.2 | 2.5 | 5.1 | 5.9 | .8 | 2.5 | 3.0 |
| CROPLAND 2 | 3158.2 | 2610.2 | 3111.3 | 3599.0 | 628.5 | 1469.7 | 436.3 |
| SWG | 2.1 | 1.9 | 2.1 | 2.4 | .4 | 1.2 | 4.3 |
| CROPLAND 3 | 6657.4 | 6103.7 | 6566.1 | 7350.6 | 6657.4 | 3191.3 | 1248.0 |
| SWG | 2.1 | 1.9 | 2.1 | 2.4 | 2.1 | 2.1 | 3.4 |
| CROPLAND 5 | 267.7 | 267.7 | 264.3 | 302.5 | 267.7 | 643.0 | 0.0 |
| SWG | .4 | .4 | .4 | .5 | .4 | .4 | 0.0 |
| CROPLAND 10 | 20167.0 | 780.8 | 19928.5 | 22773.2 | 2362.4 | 232.6 | 252.6 |
| SWG | 79.8 | 3.1 | 78.9 | 90.2 | 10.1 | 33.1 | 79.8 |
| CROPLAND | 39175.0 | 14008.3 | 30600.1 | 44337.1 | 11503.8 | 21919.3 | 7279.5 |
| | 5.4 | 2.0 | 5.3 | 6.1 | 1.6 | 3.0 | |
| VINEYARDS AND ORCH. | 0.0 0.0 | 0.0 (TONS) 0.0 (ACRES) | AREA ONLY | 2204.5 (ACRES) | | | |
| GRASSLAND AND PASTURE | 4788.2 36385.2 | 4788.2 (TONS) 36973.3 (ACRES) | OTHER LAND USE AREA | 29599.9 (ACRES) | | | |
| | .13 | .14 (TONS/ACRE) | | | | | |
| WOODLAND | 26691.5 | 26691.5 (TONS) | MISSING DATA | 22242.6 (ACRES) | | | |
| | 60967.9 | 59314.6 (ACRES) | | | | | |
| | .44 | .45 (TONS/ACRE) | | | | | |
| 3/4 VARY TOTAL POTENTIAL GROSS EROSION | 85685.8 | 55175.8 | 85085.6 | 91946.1 | 52176.4 | 64759.1 | 126795.2 |
| | .7 | .4 | .7 | .7 | .4 | .3 | |
| PERCENT REDUCTION: | 8.8 | 39.5 | .7 | -7.3 | 2.0 | 39.1 | 24.4 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: GRAND | | COUNTY: 20 LAKE, OHIO | | | | | | | | | |
|---------------------------------------|--|---|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---------------------------------------|---------|--------|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | REDUCE LOSS TO PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION YILLAGE (TONS/ACRE) | REDUCED YILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > Y FACTOR (ACRES) | | | |
| 200PLAND 1 | 17319.3 | 6513.3 | 17111.8 | 19591.8 | 9.1 | 7.7 | 2126.3 | 7492.7 | 2158.6 | 1722.3 | |
| 200PLAND 2 | 24756.8 | 23351.4 | 24467.3 | 23743.4 | 3.3 | 2.8 | 3040.3 | 10713.5 | 9127.6 | 7382.4 | |
| 200PLAND 3 | 2244.6 | 2244.6 | 2218.3 | 2533.4 | 1.6 | 1.5 | 2244.6 | 2244.6 | 1423.7 | 0.0 | |
| 200PLAND 4 | 125.6 | 125.6 | 124.1 | 141.8 | 0.6 | 0.7 | 125.6 | 125.6 | 206.7 | 0.0 | |
| 200PLAND 5 | 15184.9 | 482.2 | 14928.3 | 17048.3 | 106.1 | 90.1 | 1855.0 | 6535.5 | 160.7 | 140.7 | |
| 200PLAND 6 | 59546.2 | 32717.1 | 58849.8 | 67207.2 | 4.8 | 5.4 | 931.8 | 27113.8 | 12377.3 | 2.2 | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | JATER AREA ONLY | 591.1 (ACRES) | | | | | | | |
| 3400PLAND AND PASTURE | 2806.6 | 2806.6 (TONS) | OTHER LAND USE AREA | 6406.8 (ACRES) | | | | | | | |
| 4300PLAND | 10011.9 | 10011.9 (TONS) | MISSING DATA | 3995.0 (ACRES) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 77978.1 | 48739.7 | 77211.4 | 86316.8 | 75314.4 | 23326.6 | 42634.2 | 49536.6 | | | |
| PERCENT REDUCTION: | 0.0 | 37.5 | 1.0 | -10.7 | 3.4 | 70.1 | 45.3 | | | | |

COUNTY: 21 GE AUGA. OHIO

PAINESVILLE, OH

ANALYSTS: GRADUATE

| LAND USE | EXISTING POTENTIAL GROSS EROSION | | LOSS TO TILLAGE AND EXISTING ONLY | | FALL PLOWING ONLY | | WINTER COVER CROP | | MAXIMUM REDUCTION VILLAGE | | REDUCED VILLAGE: CHISEL PLOW AREA | | EXISTING SOIL MONT. 3RDY LAND | |
|----------|----------------------------------|------------|-----------------------------------|------------|-------------------|------------|-------------------|------------|---------------------------|------------|-----------------------------------|------------|-------------------------------|------------|
| | (TNS/ACRE) | (TNS/ACRE) | (TNS/ACRE) | (TNS/ACRE) | (TNS/ACRE) | (TNS/ACRE) | (TNS/ACRE) | (TNS/ACRE) | (TNS/ACRE) | (TNS/ACRE) | (TNS/ACRE) | (TNS/ACRE) | (TNS/ACRE) | (TNS/ACRE) |
| 3300LAND | 25.2 | 1.1 | 25.2 | 1.1 | 24.7 | 1.1 | 29.5 | 1.1 | 25.2 | 1.1 | 25.2 | 1.1 | 23.0 | 0.0 |
| 3306 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 23.0 | 0.0 |
| 3300LAND | 5.0 | 1.1 | 5.0 | 1.1 | 4.9 | 1.1 | 5.9 | 1.1 | 5.0 | 1.1 | 5.0 | 1.1 | 23.0 | 0.0 |
| 3305 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 23.0 | 0.0 |
| 3300LAND | 30.2 | 1.1 | 30.2 | 1.1 | 29.6 | 1.1 | 35.5 | 1.1 | 30.2 | 1.1 | 30.2 | 1.1 | 46.3 | 0.0 |
| 3300LAND | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3300LAND | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3300LAND | 213.5 | 1.1 | 213.5 | 1.1 | 213.5 | 1.1 | 213.5 | 1.1 | 213.5 | 1.1 | 213.5 | 1.1 | 213.5 | 0.0 |
| 3300LAND | 1607.4 | 1.1 | 1607.4 | 1.1 | 1607.4 | 1.1 | 1607.4 | 1.1 | 1607.4 | 1.1 | 1607.4 | 1.1 | 1607.4 | 0.0 |
| 3300LAND | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 |
| 3300LAND | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 0.0 |
| 3300LAND | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 0.0 |
| 3300LAND | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 0.0 |
| 3300LAND | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 0.0 |
| 3300LAND | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 0.0 |
| 3300LAND | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 0.0 |
| 3300LAND | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 0.0 |
| 3300LAND | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 0.0 |
| 3300LAND | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 0.0 |
| 3300LAND | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 0.0 |
| 3300LAND | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 0.0 |
| 3300LAND | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 0.0 |
| 3300LAND | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 1.1 | 1908.9 | 0.0 |
| 3300LAND | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 1.1 | 3123.8 | 0.0 |
| 3300LAND | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61 | 1.1 | 61</ | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
 LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: GRANO | | COUNTY: 22 PORTAGE, OHIO | | | | | | | | | |
|---------------------------------------|-------------------------------|---|--|--------------------------|--------------------------|----------------------------------|--|------------------------------------|---------------------------------------|--------------------------------|---------------------------------------|
| LAND USE | EXISTING GROSS EROSION (TONS) | EXISTING POT. LOSS TO T. AND EXISTING ONLY (TONS) | REDUCE SOIL SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. 3300' LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
| | | | | | | | | | | | |
| CRAPLAND | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRASSLAND AND PASTURE | 142.8 | 142.8 | 142.8 | 142.8 | 142.8 | 142.8 | 142.8 | 142.8 | 142.8 | 142.8 | 142.8 |
| WOODLAND | 482.2 | 482.2 | 482.2 | 482.2 | 482.2 | 482.2 | 482.2 | 482.2 | 482.2 | 482.2 | 482.2 |
| JANUARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | |
| PERCENT REDUCTION: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| COUNTY: 24 ASHTABULA, OHIO | | | | | | | | | |
|---------------------------------------|--|--|-------------------------------|-------------------------------|---------------------------------------|--|------------------------------------|---------------------------------------|--------------------------------|
| BASIN: GRAND | | | | | | | | | |
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | EXISTING POTENTIAL SOIL SPRING LOSS TO T. PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 7 FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) |
| 1 CROPLAND | 3544.4 | 3544.4 | 3485.3 | 4253.3 | 3544.4 | 1017.8 | 2089.7 | 0.0 | 0.0 |
| 2 CROPLAND | 57916.5 | 53475.1 | 56951.3 | 69499.8 | 57916.5 | 23166.6 | 35111.1 | 2905.2 | 5.5 |
| 3 CROPLAND | 5053.5 | 5053.5 | 4969.3 | 6064.2 | 5053.5 | 5053.5 | 4822.3 | 0.0 | 0.0 |
| 4 CROPLAND | 16399.1 | 16399.1 | 16125.8 | 19578.7 | 16399.1 | 16399.1 | 49646.7 | 0.0 | 0.0 |
| 5 CROPLAND | 82913.5 | 78472.1 | 81531.7 | 99496.2 | 82913.5 | 46037.8 | 91570.0 | 0.0 | 0.0 |
| VINEYARDS AND ORCH. | 5831.7 | 4344.4 (TONS) | JATER AREA ONLY | 2490.1 (ACRES) | | | | | |
| 2548.9 | 2548.9 (ACRES) | 1.72 (TONS/ACRE) | | | | | | | |
| 2498.9 | 1446.5 (TONS) | JOTHER LAND | 11091.3 (ACRES) | | | | | | |
| 29599.8 | 29599.8 (ACRES) | JSE AREA | | | | | | | |
| .05 | .05 (TONS/ACRE) | | | | | | | | |
| WOODLAND | 4961.8 | 4961.8 (TONS) | MISSING DATA | 99816.6 (ACRES) | | | | | |
| 70336.9 | 70336.9 (ACRES) | | | | | | | | |
| .07 | .07 (TONS/ACRE) | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 140872.5 | 137347.8 | 141980.3 | 169186.5 | 144072.5 | 88237.6 | 293972.2 | 133215.9 | 7.5 |
| PERCENT REDUCTIONS: | 0.0 | 4.7 | 1.5 | -17.4 | 0.0 | 38.8 | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASINS: GRANO | | COUNTY: 62 ALL IN BASIN | | | | | | | | | |
|---------------|--|------------------------------|-------------------------|-------------------------|---------------------------------|---|-------------------------------------|--|------|--|--|
| LAND USE | EXISTING POTENTIAL GROSS EROSION AND EXISTING ONLY (TNS) | LOSS TO T PLOWING ONLY (TNS) | FALL PLOWING ONLY (TNS) | WINTER COVER CROP (TNS) | MAXIMUM REDUCTION TILLAGE (TNS) | REDUCED TILLAGE: CHISEL PLOW AREA (TNS) | SOIL REENT. 30322 LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TNS/ACRE) | | | |
| 1 | 20850.7 | 10057.7 | 20597.1 | 23795.1 | 20149.9 | 3544.1 | 10623.6 | 1722.3 | 9.3 | | |
| 2 | 82673.3 | 76826.5 | 81418.5 | 97441.7 | 81659.9 | 26206.9 | 61073.1 | 10207.6 | 3.3 | | |
| 3 | 7323.3 | 7323.3 | 7212.3 | 8627.2 | 7231.4 | 7323.3 | 7323.3 | 0.0 | 0.0 | | |
| 4 | 16529.7 | 16529.7 | 16254.6 | 19426.5 | 16524.5 | 16529.7 | 16529.7 | 0.0 | 0.0 | | |
| 5 | 15100.9 | 482.2 | 14926.3 | 17044.3 | 14084.6 | 1855.0 | 6336.5 | 160.7 | 90.0 | | |
| 6 | 142409.9 | 111219.4 | 100411.0 | 166730.6 | 140052.3 | 55459.8 | 102886.3 | 102253.7 | | | |
| 7 | 5831.7 | 4380.4 | 4380.4 | 4380.4 | 3100.1 | | | | | | |
| 8 | 2548.9 | 2548.9 | 2548.9 | 2548.9 | | | | | | | |
| 9 | 3609.4 | 3609.4 | 3609.4 | 3609.4 | 16446.3 | | | | | | |
| 10 | 14946.2 | 16946.2 | 16946.2 | 16946.2 | 197592.6 | | | | | | |
| 11 | 94632.2 | 94632.2 | 94632.2 | 94632.2 | | | | | | | |
| 12 | 298072.5 | 243013.3 | 294407.5 | 346821.5 | 293775.1 | 144442.5 | 224253.2 | 934551.6 | | | |
| 13 | 0.0 | 18.4 | 1.2 | -14.3 | 1.4 | 51.5 | 23.4 | | | | |
| 14 | 0.0 | 18.4 | 1.2 | -14.3 | 1.4 | 51.5 | 23.4 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: ASHTABULA RIVER | | ASHTABULA, OH | | COUNTY: 24 ASHTABULA, OHIO | | | |
|------------------------|---|---|--|--|--|--|---|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO FLOWING AND EXISTING ONLY (TONS/ACRE) | FALL FLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | TARIQUA REDUCTION TILLAGE (TONS/ACRE) | TILLAGE REDUCE CHISEL PLOW AREA (TONS/ACRE) | EXISTING SOIL LOSS BY FACTOR (TONS/ACRE) |
| | | | | | | | |
| 345 | 2459.2 | 2353.2 | 2418.2 | 2951.1 | 2459.2 | 943.7 | 186.7 |
| 346 | 2918.2 | 2582.5 | 28695.8 | 35018.6 | 2918.2 | 11672.9 | 1986.0 |
| 347 | 1.9 | 1.7 | 1.4 | 2.2 | 1.9 | 1.7 | 3.0 |
| 348 | 365.1 | 365.1 | 359.0 | 438.1 | 365.1 | 365.1 | 0.0 |
| 349 | .4 | .4 | .4 | .5 | .4 | .4 | 0.0 |
| 350 | 5192.5 | 5192.5 | 5105.9 | 5231.0 | 5192.5 | 5192.5 | 0.0 |
| 351 | .3 | .3 | .3 | .4 | .3 | .3 | 0.0 |
| 352 | 37198.9 | 33736.6 | 36578.9 | 44638.8 | 37198.9 | 18214.2 | 33641.5 |
| 353 | 1.1 | 1.0 | 1.1 | 1.3 | 1.1 | .5 | 1.9 |
| 354 | 272.4 | 103.5 | 103.5 | 436.3 | 436.3 | | |
| 355 | 68.9 | 68.9 | 68.9 | | | | |
| 356 | 3.95 | 1.50 | 1.50 | | | | |
| 357 | 653.4 | 653.4 | 653.4 | 653.4 | 653.4 | 653.4 | |
| 358 | 11757.3 | 11757.3 | 11757.3 | 11757.3 | 11757.3 | 11757.3 | |
| 359 | .06 | .06 | .06 | .06 | .06 | .06 | |
| 360 | 2892.5 | 2892.5 | 2892.5 | 2892.5 | 2892.5 | 2892.5 | |
| 361 | 25397.5 | 25397.5 | 25397.5 | 25397.5 | 25397.5 | 25397.5 | |
| 362 | .08 | .08 | .08 | .08 | .08 | .08 | |
| 363 | 39805.9 | 39805.9 | 39805.9 | 39805.9 | 39805.9 | 39805.9 | |
| 364 | .6 | .5 | .6 | .7 | .6 | .3 | |
| 365 | 8.6 | 8.6 | 1.5 | -18.5 | 0.0 | 47.2 | 3.2 |
| 366 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 367 | 73205.3 | 73205.3 | 73205.3 | 73205.3 | 73205.3 | 73205.3 | |
| 368 | 39762.7 | 39762.7 | 39762.7 | 39762.7 | 39762.7 | 39762.7 | |
| 369 | .3 | .3 | .3 | .3 | .3 | .3 | |
| 370 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: ASHTABULA RIVER | | ASHTABULA, OH | | COUNTY: 26 ERIC, PENNSYLVANIA | | | | | | | | | | | | | | | |
|---|---|--|--------------------------|-------------------------------|--------------------------|-------------------------------|----------------------------------|---------------------------------------|---|------------------------------------|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|---------------------------------------|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) | EXISTING POT. REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOD AREA (ACRES) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > F FACTOR (ACRES) | EXISTING SOIL LOSS > F FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > F FACTOR (ACRES) | EXISTING SOIL LOSS > F FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > F FACTOR (ACRES) | EXISTING SOIL LOSS > F FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > F FACTOR (ACRES) | EXISTING SOIL LOSS > F FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > F FACTOR (ACRES) |
| 1. CROPLAND 1 | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 | 159.9 |
| 2. CROPLAND 2 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 | 172.7 |
| 3. CROPLAND 3 | 3712.1 | 3712.1 | 3712.1 | 3712.1 | 3712.1 | 3712.1 | 3712.1 | 3712.1 | 3712.1 | 3712.1 | 3712.1 | 3712.1 | 3712.1 | 3712.1 | 3712.1 | 3712.1 | 3712.1 | 3712.1 | 3712.1 |
| 4. CROPLAND 4 | 175.1 | 175.1 | 175.1 | 175.1 | 175.1 | 175.1 | 175.1 | 175.1 | 175.1 | 175.1 | 175.1 | 175.1 | 175.1 | 175.1 | 175.1 | 175.1 | 175.1 | 175.1 | 175.1 |
| 5. CROPLAND 5 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |
| 6. CROPLAND 6 | 6946.8 | 6946.8 | 6946.8 | 6946.8 | 6946.8 | 6946.8 | 6946.8 | 6946.8 | 6946.8 | 6946.8 | 6946.8 | 6946.8 | 6946.8 | 6946.8 | 6946.8 | 6946.8 | 6946.8 | 6946.8 | 6946.8 |
| 7. VINEYARDS AND ORCH. | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 |
| 8. GRASSLAND AND PASTURE | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 |
| 9. WOODLAND | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 | 299.1 |
| 10. SUMMARY TOTAL POTENTIAL GROSS FROSION | 6526.5 | 6526.5 | 6526.5 | 6526.5 | 6526.5 | 6526.5 | 6526.5 | 6526.5 | 6526.5 | 6526.5 | 6526.5 | 6526.5 | 6526.5 | 6526.5 | 6526.5 | 6526.5 | 6526.5 | 6526.5 | 6526.5 |
| PERCENT REDUCTIONS: | 0.0 | 11.8 | 2.0 | -12.7 | 1.0 | 26.2 | 10.3 | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: ASHTABULA RIVER | | ASHTABULA, OH | | COUNTY: 62 ALL IN BASIN | | EXISTING | | REDUCED | | SOIL WMT. | |
|---------------------------------------|--|-------------------------------|-------------------------------|---------------------------------------|-----------------------------|-------------------|--------------------------------|-----------------------------|-----------------------------|-------------------|--------------------------------|
| LAND USE | EXISTING POTENTIAL LOSS TO 1 PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL WMT. (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | SOIL WMT. (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) |
| 1 CROPLAND 1 | 2619.2 | 2513.2 | 2579.8 | 3133.4 | 2617.5 | 1018.1 | 168.7 | 2265.2 | 1296.1 | 168.7 | 2381.3 |
| 2 CROPLAND 2 | 31154.8 | 27011.9 | 30626.3 | 37267.3 | 31133.6 | 12097.1 | 0.0 | 26923.9 | 15364.6 | 0.0 | 2381.3 |
| 3 CROPLAND 3 | 4877.2 | 4877.2 | 3991.3 | 4069.1 | 4037.3 | 4077.2 | 0.0 | 4077.2 | 2279.4 | 0.0 | 0.0 |
| 4 CROPLAND 4 | 175.1 | 175.1 | 171.3 | 199.6 | 173.2 | 101.7 | 0.0 | 101.7 | 197.7 | 0.0 | 0.0 |
| 5 CROPLAND 5 | 5270.7 | 5270.7 | 5162.3 | 6321.3 | 5270.4 | 5270.7 | 0.0 | 5270.7 | 16878.2 | 0.0 | 0.0 |
| 1 CROPLAND | 43297.8 | 39048.1 | 42545.7 | 51590.4 | 43232.0 | 22564.8 | 0.0 | 38637.3 | 35816.8 | 0.0 | 2381.3 |
| VINEYARDS AND ORCH. | 571.5 | 330.3 (TONS) | 478.7 (TONS) | 478.7 (TONS) | 515.4 (ACRES) | 515.4 (ACRES) | 0.0 | 515.4 (ACRES) | 515.4 (ACRES) | 0.0 | 0.0 |
| 2 PASTURE AND PASTURE | 11955.8 | 666.8 (TONS) | 11955.8 (ACRES) | 11955.8 (ACRES) | 6531.7 (ACRES) | 6531.7 (ACRES) | 0.0 | 6531.7 (ACRES) | 6531.7 (ACRES) | 0.0 | 0.0 |
| 3 PASTURE AND PASTURE | 2395.1 | 2395.1 (TONS) | 2395.1 (TONS) | 2395.1 (TONS) | 4340.1 (ACRES) | 4340.1 (ACRES) | 0.0 | 4340.1 (ACRES) | 4340.1 (ACRES) | 0.0 | 0.0 |
| 4 PASTURE AND PASTURE | 28007.8 | 28007.8 (ACRES) | 28007.8 (ACRES) | 28007.8 (ACRES) | 4340.1 (ACRES) | 4340.1 (ACRES) | 0.0 | 4340.1 (ACRES) | 4340.1 (ACRES) | 0.0 | 0.0 |
| 5 PASTURE AND PASTURE | 49618.3 | 49618.3 (ACRES) | 49618.3 (ACRES) | 49618.3 (ACRES) | 49618.3 (ACRES) | 49618.3 (ACRES) | 0.0 | 49618.3 (ACRES) | 49618.3 (ACRES) | 0.0 | 0.0 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 49618.3 | 49618.3 | 49618.3 | 49618.3 | 49618.3 | 49618.3 | 0.0 | 49618.3 | 49618.3 | 0.0 | 0.0 |
| PERCENT REDUCTION: | 6.8 | 9.1 | 1.6 | -17.7 | 1.1 | 44.2 | 3.9 | 44.2 | 3.9 | 3.9 | 3.9 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| 333IV: WUBRAD RUN | | ASHTABULA, OH | | COUNTY: 24 ASHTABULA, OHIO | | ALL IN BASIN | |
|---------------------------------------|---|--------------------------|--------------------------|---------------------------------------|--|-----------------------------------|---|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T PLOUING AND EXISTING ONLY (TONS) | FALL PLOUING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE) | SOIL WGT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) |
| 1 | 207.5 | 204.1 | 249.1 | 207.5 | 183.3 | 91.3 | 0.0 |
| 546 | 2.3 | 2.2 | 2.7 | 2.3 | 2.0 | | 0.0 |
| 2 | 1147.4 | 1128.3 | 1376.9 | 1147.4 | 1013.5 | 528.2 | 114.8 |
| 546 | 2.2 | 2.1 | 2.6 | 2.2 | 1.9 | | 3.0 |
| 5 | 25.4 | 24.9 | 30.4 | 25.4 | 25.4 | 91.3 | 0.0 |
| 545 | .3 | .3 | .3 | .3 | .3 | | 0.0 |
| 130PLAND | 1388.3 | 1175.3 | 1357.3 | 1380.3 | 1222.3 | 712.0 | |
| 1.9 | 1.7 | 1.9 | 2.3 | 1.9 | 1.7 | | |
| VINEYARDS AND ORCH. | 138.4 | 45.9 (TMS) | JATFR AREA ONLY | 0.0 (ACRES) | | | |
| 5.67 | 23.0 (ACRES) | 2.00 (TMS/ACRE) | | | | | |
| 31ASSLAND AND PASTURE | 86.7 | 86.7 (TMS) | OTHER LAND USE AREA | 3651.2 (ACRES) | | | |
| 1788.2 | 1768.2 (ACRES) | | | | | | |
| .05 | .05 (TMS/ACRE) | | | | | | |
| 400DLAND | 167.6 | 167.6 (TMS) | MISSING DATA | 1745.2 (ACRES) | | | |
| 1446.7 | 1446.7 (ACRES) | | | | | | |
| .12 | .12 (TMS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 2544.8 | 2511.7 | 2942.9 | 2544.8 | 2317.3 | 5695.1 | |
| .4 | .4 | .4 | .5 | .4 | .2 | .4 | |
| PERCENT REDUCTION: | 0.0 | 11.6 | -15.6 | 0.0 | 46.1 | 9.3 | |

LANE ERIC WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: CONNEAUT CREEK | | CONNEAUT, OH | | | | COUNTY: 24 ASHTABULA, OHIO | | | | | | | | | | | | | |
|---------------------------------------|--|-------------------------------|-------------------------------|---------------------------------------|---|-------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WGT. SAVING FACTOR (TONS/ACRE) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | | | | | | | | | | | | |
| 1-30PLAND 1 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | 1184.7 | | | | | | | | | | | | |
| 346 | 1.1 | 1.1 | 1.3 | 1.1 | .4 | .3 | 0.0 | | | | | | | | | | | | |
| 2-30PLAND 2 | 9255.9 | 6741.7 | 9101.6 | 11107.1 | 9255.9 | 3702.4 | 8176.0 | | | | | | | | | | | | |
| 346 | 2.4 | 1.7 | 2.3 | 2.9 | 2.4 | 1.0 | 3.8 | | | | | | | | | | | | |
| 3-30PLAND 3 | 141.1 | 141.1 | 136.7 | 159.3 | 141.1 | 141.1 | 141.1 | | | | | | | | | | | | |
| 346 | .4 | .4 | .4 | .5 | .4 | .4 | 0.0 | | | | | | | | | | | | |
| 4-30PLAND 4 | 163.7 | 163.7 | 161.0 | 196.4 | 163.7 | 163.7 | 163.7 | | | | | | | | | | | | |
| 346 | .3 | .3 | .4 | .4 | .3 | .3 | 0.0 | | | | | | | | | | | | |
| 5-30PLAND 5 | 9231.2 | 10566.2 | 12894.4 | 10745.4 | 9527.3 | 3955.5 | 3955.5 | | | | | | | | | | | | |
| 346 | 1.4 | 1.8 | 2.2 | 1.8 | .8 | 1.6 | 0.0 | | | | | | | | | | | | |
| VINEYARDS AND ORCH. | 411.7 | 315.8 (TONS) | JATER AREA ONLY | 298.5 (ACRES) | | | | | | | | | | | | | | | |
| | 367.4 | 367.4 (ACRES) | | | | | | | | | | | | | | | | | |
| | 1.12 | .86 (TONS/ACRE) | | | | | | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 273.2 | 273.2 (TONS) | OTHER LAND | 2732.7 (ACRES) | | | | | | | | | | | | | | | |
| | 3169.8 | 3169.8 (ACRES) | JSE AREA | | | | | | | | | | | | | | | | |
| | .09 | .05 (TONS/ACRE) | | | | | | | | | | | | | | | | | |
| WOODLAND | 878.6 | 878.6 (TONS) | MISSING DATA | 3834.9 (ACRES) | | | | | | | | | | | | | | | |
| | 7849.8 | 7849.8 (ACRES) | | | | | | | | | | | | | | | | | |
| | .12 | .12 (TONS/ACRE) | | | | | | | | | | | | | | | | | |
| 3-44ARY TOTAL POTENTIAL GROSS EROSION | 15178.0 | 14949.0 | 17820.2 | 15170.0 | 13687.3 | 27276.7 | 27276.7 | | | | | | | | | | | | |
| | .7 | .7 | .9 | .7 | .4 | .7 | 0.0 | | | | | | | | | | | | |
| PERCENT REDUCTIONS: | 0.0 | 20.4 | 1.5 | -17.5 | 0.0 | 50.9 | 9.3 | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

343IN: CONNEAUT CREEK CONNEAUT, 34 COUNTY: 25 ERIE, PENNSYLVANIA

| LAND USE | EXISTING GROSS EROSION (TONS) | POTENTIAL GROSS EROSION (TONS) | LOSS TO PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM TILLAGE REDUCTION (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (ACRES) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) |
|----------|-------------------------------|--------------------------------|-----------------------------|--------------------------|--------------------------|----------------------------------|---|------------------------------------|-----------------------------------|
| 343 1 | 6231.6 | 5435.3 | 6097.6 | 7102.7 | 6164.6 | 1340.1 | 3619.4 | 1418.7 | 1700.1 |
| 343 2 | 23210.6 | 15711.0 | 22711.4 | 26455.1 | 22961.0 | 4991.5 | 13077.1 | 5335.1 | 5056.1 |
| 343 3 | 17788.3 | 12809.9 | 17405.7 | 20274.2 | 17597.0 | 17788.3 | 17788.3 | 4270.0 | 4270.0 |
| 343 4 | 615.2 | 615.2 | 602.0 | 701.2 | 608.6 | 357.2 | 357.2 | 711.7 | 0.0 |
| 343 5 | 330.5 | 330.5 | 323.4 | 376.7 | 326.9 | 330.5 | 330.5 | 790.7 | 0.0 |
| 343 10 | 8184.0 | 1621.0 | 16.9 | 9328.0 | 8096.0 | 1760.0 | 4752.0 | 474.4 | 474.4 |
| 343 10 | 17.3 | 3.4 | 16.9 | 19.7 | 17.1 | 3.7 | 10.0 | 17.3 | 17.3 |
| 343 10 | 56368.2 | 37522.9 | 35148.1 | 64238.5 | 55754.1 | 25317.6 | 4323.3 | 13500.5 | 13500.5 |
| 343 10 | 4.1 | 2.8 | 4.1 | 4.7 | 4.1 | 2.0 | 3.0 | 3.0 | 3.0 |
| 343 10 | 619.5 | 497.5 (TONS) | 497.5 (TONS) | 497.5 (TONS) | 497.5 (TONS) | 497.5 (TONS) | 497.5 (TONS) | 497.5 (TONS) | 497.5 (TONS) |
| 343 10 | 158.1 | 158.2 (ACRES) | 158.2 (ACRES) | 158.2 (ACRES) | 158.2 (ACRES) | 158.2 (ACRES) | 158.2 (ACRES) | 158.2 (ACRES) | 158.2 (ACRES) |
| 343 10 | 3.92 | 2.89 (TONS/ACRE) | 2.89 (TONS/ACRE) | 2.89 (TONS/ACRE) | 2.89 (TONS/ACRE) | 2.89 (TONS/ACRE) | 2.89 (TONS/ACRE) | 2.89 (TONS/ACRE) | 2.89 (TONS/ACRE) |
| 343 10 | 170.8 | 170.8 (TONS) | 170.8 (TONS) | 170.8 (TONS) | 170.8 (TONS) | 170.8 (TONS) | 170.8 (TONS) | 170.8 (TONS) | 170.8 (TONS) |
| 343 10 | 1225.6 | 1225.6 (ACRES) | 1225.6 (ACRES) | 1225.6 (ACRES) | 1225.6 (ACRES) | 1225.6 (ACRES) | 1225.6 (ACRES) | 1225.6 (ACRES) | 1225.6 (ACRES) |
| 343 10 | .14 | .14 (TONS/ACRE) | .14 (TONS/ACRE) | .14 (TONS/ACRE) | .14 (TONS/ACRE) | .14 (TONS/ACRE) | .14 (TONS/ACRE) | .14 (TONS/ACRE) | .14 (TONS/ACRE) |
| 343 10 | 3282.3 | 3282.3 (TONS) | 3282.3 (TONS) | 3282.3 (TONS) | 3282.3 (TONS) | 3282.3 (TONS) | 3282.3 (TONS) | 3282.3 (TONS) | 3282.3 (TONS) |
| 343 10 | 16842.7 | 16842.7 (ACRES) | 16842.7 (ACRES) | 16842.7 (ACRES) | 16842.7 (ACRES) | 16842.7 (ACRES) | 16842.7 (ACRES) | 16842.7 (ACRES) | 16842.7 (ACRES) |
| 343 10 | .19 | .19 (TONS/ACRE) | .19 (TONS/ACRE) | .19 (TONS/ACRE) | .19 (TONS/ACRE) | .19 (TONS/ACRE) | .19 (TONS/ACRE) | .19 (TONS/ACRE) | .19 (TONS/ACRE) |
| 343 10 | 61852.2 | 42546.9 | 60618.0 | 69926.2 | 61231.0 | 31319.4 | 49417.1 | 32617.7 | 32617.7 |
| 343 10 | 1.9 | 1.3 | 1.9 | 2.1 | 1.9 | 1.0 | 1.4 | 1.4 | 1.4 |
| 343 10 | 31.2 | 2.0 | -13.1 | 1.0 | 49.4 | 26.5 | 26.5 | 26.5 | 26.5 |
| 343 10 | 8.0 | 31.2 | 2.0 | -13.1 | 1.0 | 49.4 | 26.5 | 26.5 | 26.5 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: CONNEAUT CREEK | | | | | | | | | | COUNTY: 27 CRAWFORD, PENNSYLVANIA | | | | | | | | | | EXISTING SOIL LOSS X 3 FACTOR (TONS/ACRE) | |
|---------------------------------------|---------|----------------------------------|---------|--------------------------------------|---------|-------------------|---------|-------------------|--|-----------------------------------|--|----------------------------------|--|---------------------------|--|--|---------|---------|--|--|--|
| LAND USE | | EXISTING POTENTIAL GROSS EROSION | | LOSS TO 1% PLOWING AND EXISTING ONLY | | FALL PLOWING ONLY | | WINTER COVER CROP | | MAXIMUM REDUCTION TILLAGE | | REDUCED TILLAGE CHISEL PLOW AREA | | SOIL MGMT. BROW-LAND AREA | | | | | | | |
| | | (TONS) | | (TONS) | | (TONS) | | (TONS) | | (TONS) | | (TONS) | | (ACRES) | | | | | | | |
| | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (ACRES) | | | | | | | |
| CROPLAND 1 | 12192.7 | 8500.4 | 11887.9 | 14174.0 | 12192.7 | 3553.0 | 6077.7 | 2498.9 | | | | | | | | | 2498.9 | 4.9 | | | |
| 345 | | 3.4 | 4.8 | 5.7 | 4.9 | 1.3 | 3.2 | | | | | | | | | | | | | | |
| CROPLAND 2 | 32173.2 | 22871.1 | 31368.9 | 37401.4 | 32173.2 | 8847.6 | 21514.8 | 7512.0 | | | | | | | | | 7512.0 | 4.4 | | | |
| 346 | | 4.3 | 4.2 | 5.0 | 4.3 | 1.2 | 2.3 | | | | | | | | | | | | | | |
| CROPLAND 3 | 7557.5 | 7557.5 | 7368.6 | 8765.6 | 7557.5 | 7557.5 | 7557.5 | 2688.5 | | | | | | | | | 2688.5 | 0.0 | | | |
| 345 | | 2.8 | 2.7 | 3.3 | 2.8 | 2.8 | 2.3 | | | | | | | | | | | 0.0 | | | |
| CROPLAND 4 | 1181.5 | 1181.5 | 1152.4 | 1373.5 | 1181.5 | 782.8 | 782.8 | 1384.7 | | | | | | | | | | 0.0 | | | |
| 346 | | .9 | .9 | 1.1 | .9 | .6 | .5 | | | | | | | | | | | 0.0 | | | |
| CROPLAND 5 | 9942.4 | 9942.4 | 9693.8 | 11558.0 | 9942.4 | 9942.4 | 9942.4 | 10556.3 | | | | | | | | | 10556.3 | 0.0 | | | |
| 346 | | .9 | .9 | 1.1 | .9 | .9 | .7 | | | | | | | | | | | 0.0 | | | |
| CROPLAND 10 | 4977.4 | 1028.0 | 4803.2 | 8111.5 | 4977.4 | 1918.8 | 4622.7 | 276.8 | | | | | | | | | 276.8 | 25.2 | | | |
| 346 | | 25.2 | 24.6 | 29.3 | 25.2 | 6.9 | 16.7 | | | | | | | | | | | | | | |
| CROPLAND | 78024.9 | 51088.9 | 68274.4 | 81484.0 | 78024.9 | 32402.1 | 52297.3 | 24329.1 | | | | | | | | | | | | | |
| 346 | | 2.1 | 2.7 | 3.3 | 2.8 | 1.3 | 2.1 | | | | | | | | | | | | | | |
| VINEYARDS AND ORCH. | 348.6 | 348.6 | 348.6 | 348.6 | 348.6 | 348.6 | 348.6 | 348.6 | | | | | | | | | | | | | |
| 346 | | 1.86 | 1.86 | 1.86 | 1.86 | 1.86 | 1.86 | | | | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 345.0 | 345.0 | 345.0 | 345.0 | 345.0 | 345.0 | 345.0 | 345.0 | | | | | | | | | | | | | |
| 346 | | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | | | | | | | | | | | | | | |
| WOODLAND | 4861.9 | 4861.9 | 4861.9 | 4861.9 | 4861.9 | 4861.9 | 4861.9 | 4861.9 | | | | | | | | | | | | | |
| 346 | | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | 78593.4 | 58899.4 | 76773.6 | 90423.0 | 78593.4 | 59481.1 | 60164.5 | | | | | | | | | 60164.5 | 36063.2 | | | |
| PERCENT REDUCTION: | | 6.0 | 25.1 | 2.3 | -15.1 | 0.0 | 49.8 | 23.4 | | | | | | | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: CONNEAUT CREEK | | CONNEAUT, OH | | COUNTY: 62 ALL IN BASIN | | | |
|---------------------------------------|----------------------|--------------------|--------------|-------------------------|-------------|------------------|-------------|
| LAND USE | EXISTING POT. REDUCE | SOIL SPRING | FALL | WINTER | MAXIMUM | REDUCED | EXISTING |
| | GROSS | LOSS TO T | PLOWING | COVER | REDUCTION | TILLAGE: | SOIL LOSS |
| | EROSION | AND EXISTING, ONLY | ONLY | CRAP | TILLAGE | CHISEL PLOW AREA | ST FACTOR |
| | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (TONS) | (ACRES) |
| | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) |
| CROPLAND | 19609.0 | 15120.4 | 19150.4 | 19542.0 | 5167.0 | 12742.5 | 4192.9 |
| 345 | 3.6 | 2.8 | 3.5 | 3.6 | 1.0 | 2.4 | 4.3 |
| CROPLAND | 66639.7 | 46323.8 | 63181.9 | 64390.1 | 17541.5 | 42967.9 | 14036.0 |
| 346 | 3.8 | 2.7 | 3.7 | 3.8 | 1.0 | 2.5 | 4.3 |
| CROPLAND | 25486.9 | 20508.5 | 24913.0 | 25295.6 | 25486.9 | 25486.9 | 4270.0 |
| 345 | 3.5 | 2.8 | 3.4 | 3.5 | 3.5 | 3.5 | 6.2 |
| CROPLAND | 1796.8 | 1796.8 | 1754.0 | 1798.2 | 1140.8 | 1140.2 | 0.8 |
| 346 | .9 | .9 | .9 | .9 | .6 | .5 | 0.0 |
| CROPLAND | 10436.5 | 10436.5 | 12178.1 | 10433.0 | 10436.5 | 10436.5 | 7.0 |
| 345 | .9 | .9 | .9 | .9 | .9 | .9 | 0.0 |
| CROPLAND | 15161.6 | 2849.0 | 14811.2 | 15073.6 | 3678.8 | 9374.7 | 751.2 |
| 346 | 20.2 | 3.5 | 19.7 | 20.1 | 4.9 | 12.5 | 20.2 |
| CROPLAND | 137130.5 | 96835.0 | 133982.6 | 136524.5 | 63950.7 | 102149.3 | 41285.5 |
| 345 | 3.1 | 2.2 | 3.0 | 3.1 | 1.4 | 2.3 | |
| VINEYARDS | 1399.9 | 1141.9 (TONS) | | 1721.9 (ACRES) | | | |
| AND ORCH. | 723.2 | 723.2 (ACRES) | AREA ONLY | | | | |
| | 1.94 | 1.58 (TONS/ACRE) | | | | | |
| GRASSLAND | 789.0 | 789.0 (TONS) | OTHER LAND | 10205.1 (ACRES) | | | |
| AND PASTURE | 7004.0 | 7004.0 (ACRES) | USE AREA | | | | |
| | .11 | .11 (TONS/ACRE) | | | | | |
| WOODLAND | 8934.8 | 8934.8 (TONS) | MISSING DATA | 6768.6 (ACRES) | | | |
| | 50194.4 | 50194.4 (ACRES) | | | | | |
| | .18 | .18 (TONS/ACRE) | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 158061.6 | 115100.4 | 154711.0 | 157415.5 | 79507.7 | 120765.1 | 100357.9 |
| | 1.5 | 1.1 | 1.4 | 1.4 | .7 | 1.1 | |
| PERCENT REDUCTION: | 0.0 | 27.2 | 2.1 | -14.4 | .4 | 49.7 | 23.6 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

W. SPRINGVILLE, PA COUNTY: 26 (REC. PENNSYLVANIA ALL IN BASIN

345IN: BACCOON CREEK

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO 1 PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CALSEL 2-3M AREA (TONS) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
|--|--|-------------------------------|--------------------------|--------------------------|----------------------------------|--|------------------------------------|---------------------------------------|
| 1. CROPLAND | 173.0 | 173.0 | 169.3 | 197.2 | 171.2 | 37.2 | 118.6 | 0.0 |
| 2. CROPLAND | 1301.7 | 1225.6 | 1273.7 | 1483.6 | 1287.7 | 279.9 | 395.4 | 3.3 |
| 3. CROPLAND | 1779.7 | 1398.6 | 1443.0 | 1680.8 | 1458.9 | 317.1 | 510.0 | 1.7 |
| 4. VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5. GRASSLAND AND PASTURE | 79.1 | 79.1 | 79.1 | 79.1 | 158.1 | 158.1 | 158.1 | 0.0 |
| 6. WOODLAND | 269.3 | 269.3 | 269.3 | 269.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7. SUMMARY TOTAL POTENTIAL GROSS EROSION | 1758.8 | 1678.7 | 1719.1 | 1956.9 | 1735.0 | 593.2 | 1132.0 | 1660.6 |
| PERCENT REDUCTION: | 0.0 | 4.3 | 1.4 | -11.0 | 0.9 | 66.1 | 33.1 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: HILL CREEK | | COUNTY: 26 ERIE, PENNSYLVANIA | | | | | | | | | | ALL IN BASIN | |
|---------------------------------------|------------------------------------|--|-------------------------------------|------------------------------|-------------------------------|---------------------------------------|--|--------------------------------|---------------------------------------|--------------------------------|--|--------------|--|
| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | EXISTING POT. LOSS TO T. AND EXISTING ONLY (TONS/ACRE) | REDUCE SOIL PLUING ONLY (TONS/ACRE) | FALL PLUING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISPL PLOW AREA (TONS/ACRE) | SOIL WGT. 3RD PL. AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) | | | |
| | | | | | | | | | | | | | |
| CROPLAND 1 | 596.1 | 596.1 | 583.3 | 679.4 | 589.7 | 128.2 | 346.1 | 266.9 | 0.0 | 0.0 | | | |
| 346 | 2.2 | 2.2 | 2.2 | 2.5 | 2.2 | .5 | 1.3 | | 0.0 | 0.0 | | | |
| CROPLAND 2 | 306.7 | 296.7 | 300.1 | 349.6 | 303.4 | 66.0 | 178.1 | 177.3 | 89.0 | 89.0 | | | |
| 342 | 1.7 | 1.7 | 1.7 | 2.0 | 1.7 | .4 | 1.3 | | 3.1 | 3.1 | | | |
| CROPLAND 3 | 1392.4 | 808.6 | 1362.4 | 1587.0 | 1377.4 | 1392.4 | 1392.4 | 266.9 | 266.9 | 266.9 | | | |
| 346 | 5.2 | 3.0 | 5.1 | 5.9 | 5.2 | 5.2 | 5.2 | | 5.2 | 5.2 | | | |
| CROPLAND 4 | 2193.9 | 266.9 | 2145.7 | 2500.6 | 2170.3 | 471.8 | 1273.9 | 89.0 | 89.0 | 89.0 | | | |
| 346 | 24.7 | 3.0 | 24.1 | 28.1 | 24.4 | 5.3 | 14.3 | | 24.7 | 24.7 | | | |
| CROPLAND 5 | 4489.1 | 1960.3 | 4392.5 | 5116.5 | 4480.8 | 2058.4 | 3198.5 | 400.7 | | | | | |
| | 5.6 | 2.4 | 5.5 | 6.4 | 5.5 | 2.5 | 4.0 | | | | | | |
| VINEYARDS AND ORCH. | 969.9 | 852.4 (TONS) | 4ATER AREA ONLY | | 89.0 (ACRES) | | | | | | | | |
| | 355.8 | 355.9 (ACRES) | | | | | | | | | | | |
| | 2.73 | 2.40 (TONS/ACRE) | | | | | | | | | | | |
| GRASSLAND AND PASTURE | 248.1 | 248.1 (TONS) | OTHER LAND USE AREA | | 2046.0 (ACRES) | | | | | | | | |
| | 711.7 | 711.7 (ACRES) | | | | | | | | | | | |
| | .35 | .35 (TONS/ACRE) | | | | | | | | | | | |
| WOODLAND | 556.7 | 556.7 (TONS) | MISSING DATA | | 89.0 (ACRES) | | | | | | | | |
| | 1779.2 | 1779.2 (ACRES) | | | | | | | | | | | |
| | .31 | .31 (TONS/ACRE) | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | | | | | |
| | 6416.6 | 6317.7 | 7059.5 | 6367.2 | 5086.4 | 3926.6 | 5086.4 | 3736.4 | | | | | |
| | 1.7 | 1.7 | 1.9 | 1.7 | 1.4 | 1.1 | 1.4 | | | | | | |
| PERCENT REDUCTION: | 8.0 | 40.4 | 1.5 | -10.0 | .0 | 38.8 | 28.7 | | | | | | |

COUNTY: 29 ERIE, NEW YORK

60 WANDA, NY

NAME: CATTARAUGUS CREEK

1

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

WASTEWATER CATTARAUGUS CREEK CATTARAUGUS COUNTY, NY (INVALID SOILS)

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO Y PLOWING AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MOIST. STOR. LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
|---------------------------------------|--|---|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|-------------------------------------|---------------------------------------|
| CROPLAND 1 | 132448.3 | 92449.2 | 13705.6 | 149875.7 | 132448.3 | 18290.8 | 51810.3 | 30823.8 | 30823.8 |
| 545 | 4.3 | 3.0 | 6.2 | 4.9 | 4.3 | .6 | 1.7 | 8.3 | 8.3 |
| CROPLAND 2 | 34497.0 | 15647.9 | 34043.1 | 39036.0 | 34497.0 | 4766.0 | 13390.3 | 5715.5 | 5137.3 |
| 546 | 6.0 | 2.7 | 6.0 | 6.8 | 6.0 | .8 | 2.3 | 6.7 | 6.7 |
| CROPLAND 3 | 184796.4 | 70788.1 | 182364.8 | 209111.7 | 184796.4 | 184796.4 | 184795.3 | 23596.0 | 23596.0 |
| 546 | 7.8 | 3.0 | 7.7 | 8.9 | 7.8 | 7.8 | 7.3 | 7.8 | 7.8 |
| CROPLAND 4 | 2722.6 | 2468.6 | 2666.8 | 3080.9 | 2722.6 | 1056.8 | 1056.3 | 822.9 | 822.9 |
| 546 | 3.3 | 3.0 | 3.3 | 3.7 | 3.3 | 1.3 | 1.3 | 3.3 | 3.3 |
| CROPLAND 5 | 1422.2 | 1422.2 | 1403.5 | 1609.4 | 1422.2 | 1422.2 | 1422.2 | 1801.4 | 1801.4 |
| 546 | .8 | .8 | .8 | .9 | .8 | .8 | .3 | 0.0 | 0.0 |
| CROPLAND 10 | 208361.9 | 23907.3 | 205620.3 | 235777.9 | 208361.9 | 28786.9 | 80877.3 | 8028.4 | 8028.4 |
| 546 | 26.0 | 3.0 | 25.5 | 29.4 | 26.0 | 3.6 | 10.1 | 26.0 | 26.0 |
| CROPLAND | 56248.4 | 206733.3 | 556824.1 | 638491.6 | 56248.4 | 259127.1 | 332953.2 | 78789.0 | 78789.0 |
| 546 | 8.0 | 2.9 | 7.9 | 9.0 | 8.0 | 3.4 | 9.7 | | |
| VINEYARDS AND ORCH. | 1595.2 | 1001.3 (TONS) | 711.6 (ACRES) | 2935.6 (ACRES) | | | | | |
| 546 | 2.24 | 1.41 (TONS/ACRE) | | | | | | | |
| GRASSLAND AND PASTURE | 2585.1 | 2585.1 (TONS) | OTHER LAND USE AREA | 15322.9 (ACRES) | | | | | |
| 546 | 12409.6 | 12409.6 (ACRES) | | | | | | | |
| 546 | .21 | .21 (TONS/ACRE) | | | | | | | |
| WOODLAND | 35443.0 | 35443.0 (TONS) | MISSING DATA | 9073.7 (ACRES) | | | | | |
| 546 | 71811.1 | 71811.1 (ACRES) | | | | | | | |
| 546 | .49 | .49 (TONS/ACRE) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 639058.8 | 260111.6 | 631201.9 | 717624.1 | 639058.8 | 294993.0 | 394287.0 | 164796.1 | 164796.1 |
| 546 | 3.9 | 1.6 | 3.8 | 4.4 | 3.9 | 1.8 | 2.4 | | |
| PERCENT REDUCTION: | 0.0 | 59.2 | 1.2 | -12.3 | 0.0 | 53.4 | 39.3 | | |

COUNTY: 31 WYOMING, NEW YORK

GOWANDA, RY

BASIN: CATTARAUGUS CREEK

[illegible]

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: CATTARAUGUS CREEK | | GOWANDA, NY | | COUNTY: 62 ALL IN BASIN | | | | | | | | | | | | | | | |
|---------------------------------------|----|----------------------------------|-----|-------------------------|------|--------------|------|-----------------|------|------------------|------|-------------|------|----------|--|--|--|--|--|
| -AND USE | | EXISTING POT. REDUCE SOIL SPRING | | FALL | | WINTER | | MAXIMUM | | REDUCED | | SOIL MGMT. | | | | | | | |
| | | LOSS TO T. PLOWING | | PLOWING | | COVER | | REDUCTION | | TILLAGE: | | 303JP LAND | | | | | | | |
| | | AND EXISTING ONLY | | ONLY | | CROP | | TILLAGE | | CHISEL PLOW AREA | | | | | | | | | |
| | | (TONS) | | (TONS) | | (TONS) | | (TONS) | | (TONS) | | (ACRES) | | | | | | | |
| | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | (TONS/ACRE) | | | | | | | |
| CROPLAND | | 192117.2 | | 189142.0 | | 217632.5 | | 192117.2 | | 32336.5 | | 54531.0 | | | | | | | |
| 546 | 1 | 3.5 | 2.7 | 3.5 | 4.0 | 4.0 | 3.5 | 3.5 | 3.5 | 1.7 | 1.7 | 39719.6 | 4.2 | | | | | | |
| CROPLAND | | 40980.1 | | 40315.2 | | 46301.1 | | 40980.1 | | 17733.9 | | 9317.7 | | | | | | | |
| 546 | 2 | 4.8 | 2.6 | 4.7 | 5.4 | 5.4 | 4.8 | 4.8 | 4.8 | 2.1 | 2.1 | 5137.3 | 6.7 | | | | | | |
| CROPLAND | | 209731.4 | | 206805.6 | | 237395.5 | | 209731.4 | | 209731.4 | | 32892.1 | | | | | | | |
| 546 | 3 | 6.4 | 2.9 | 6.3 | 7.2 | 7.2 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 26218.7 | 1.7 | | | | | | |
| CROPLAND | | 3696.1 | | 3541.3 | | 4193.4 | | 3696.1 | | 1694.7 | | 2568.7 | | | | | | | |
| 546 | 4 | 1.4 | 1.3 | 1.4 | 1.6 | 1.6 | 1.4 | 1.4 | 1.4 | .6 | .6 | 822.9 | 3.3 | | | | | | |
| CROPLAND | | 1723.2 | | 1694.1 | | 1951.2 | | 1723.2 | | 1723.2 | | 2735.5 | | | | | | | |
| 546 | 5 | .6 | .6 | .6 | .7 | .7 | .6 | .6 | .6 | .6 | .6 | 0.0 | 0.0 | | | | | | |
| CROPLAND | | 239653.6 | | 236227.6 | | 271376.3 | | 239653.6 | | 36232.2 | | 11007.7 | | | | | | | |
| 546 | 10 | 23.9 | 3.0 | 23.6 | 27.1 | 27.1 | 23.9 | 23.9 | 23.9 | 13.3 | 13.3 | 10007.7 | 23.9 | | | | | | |
| CROPLAND | | 687821.6 | | 677829.8 | | 778840.2 | | 687821.6 | | 425963.7 | | 111352.7 | | | | | | | |
| 546 | | 6.2 | 2.7 | 6.1 | 7.3 | 7.3 | 6.2 | 6.2 | 6.2 | 3.1 | 3.1 | | | | | | | | |
| VINEYARDS | | 1877.4 | | 1283.4 (TONS) | | WATER | | 5648.6 (ACRES) | | | | | | | | | | | |
| AND ORCH. | | 1023.0 | | 1023.0 (ACRES) | | ARFA ONLY | | | | | | | | | | | | | |
| | | 1.84 | | 1.25 (TONS/ACRE) | | | | | | | | | | | | | | | |
| GRASSLAND | | 3598.8 | | 3598.8 (TONS) | | OTHER LAND | | 24951.8 (ACRES) | | | | | | | | | | | |
| AND PASTURE | | 20260.1 | | 20260.1 (ACRES) | | USE AREA | | | | | | | | | | | | | |
| | | .18 | | .18 (TONS/ACRE) | | | | | | | | | | | | | | | |
| WOODLAND | | 47557.5 | | 47557.5 (TONS) | | MISSING DATA | | 14166.5 (ACRES) | | | | | | | | | | | |
| | | 102123.3 | | 102123.3 (ACRES) | | | | | | | | | | | | | | | |
| | | .47 | | .47 (TONS/ACRE) | | | | | | | | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | 785562.1 | | 774967.3 | | 882073.2 | | 785562.1 | | 361636.7 | | 507902.4 | | 249925.5 | | | | | |
| | | 3.2 | | 3.1 | | 3.5 | | 3.2 | | 1.5 | | 2.3 | | | | | | | |
| PERCENT REDUCTION: | | 0.0 | | 1.3 | | -12.3 | | 0.0 | | 54.0 | | 35.3 | | | | | | | |
| | | 52.5 | | 1.3 | | -12.3 | | 0.0 | | 54.0 | | 35.3 | | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS
U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
ALL IN BASIN

| BASIN: S. BR. CATTARAUGUS | | CITY: NY | | COUNTY: S. CATTARAUGUS, NY (INVALID SOILS) | | | | | |
|--|---|--|-------------------------------|--|---------------------------------------|---|-------------------------------|---|------|
| LAND USE | EXISTING POT. GROSS EROSION (TONS/ACRE) | REDUCE LOSS TO FLOWING AND EXISTING ONLY (TONS/ACRE) | FALL FLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. STUMP LAND (ACRES) | EXISTING SOIL LOSS T FACTOR (TONS/ACRE) | |
| CROPLAND 1 | 11869.3 | 7272.3 | 11713.1 | 13831.3 | 11869.3 | 4607.2 | 2024.1 | 2024.1 | 9.9 |
| SWG | 4.9 | 3.0 | 4.8 | 5.5 | 4.9 | 1.3 | | | |
| CROPLAND 2 | 4035.5 | 1923.1 | 3982.4 | 4566.5 | 4035.5 | 1565.4 | 733.3 | 522.7 | 6.4 |
| SWG | 5.5 | 2.4 | 5.4 | 6.2 | 5.5 | 2.1 | | | |
| CROPLAND 3 | 21917.2 | 9807.6 | 21628.8 | 24831.1 | 21917.2 | 21917.2 | 3269.2 | 3269.2 | 6.7 |
| SWG | 6.7 | 3.0 | 6.6 | 7.6 | 6.7 | 6.7 | | | |
| CROPLAND 4 | 426.1 | 333.6 | 429.5 | 492.2 | 426.1 | 165.4 | 111.2 | 111.2 | 3.8 |
| SWG | 3.8 | 3.0 | 3.8 | 4.3 | 3.8 | 1.5 | | | |
| CROPLAND 5 | 206.4 | 206.4 | 203.7 | 233.5 | 206.4 | 206.4 | 266.3 | 266.3 | 7.0 |
| SWG | .8 | .8 | .8 | .9 | .8 | .5 | | | 0.0 |
| CROPLAND 10 | 21868.0 | 2335.3 | 21580.3 | 24745.9 | 21868.0 | 4448.2 | 445.1 | 445.1 | 25.9 |
| SWG | 25.9 | 3.0 | 25.5 | 29.4 | 25.9 | 10.0 | | | |
| CROPLAND | 60322.5 | 22078.3 | 59528.8 | 68259.7 | 60322.5 | 36950.9 | 7650.6 | | |
| | 7.9 | 2.9 | 7.8 | 8.9 | 7.9 | 4.8 | | | |
| VINEYARDS AND ORCH. | 137.1 | 126.8 (TONS) | WATER AREA ONLY | | 355.8 (ACRES) | | | | |
| | 111.2 | 111.2 (ACRES) | | | | | | | |
| | 1.23 | 1.14 (TONS/ACRE) | | | | | | | |
| GRASSLAND AND PASTURE | 308.1 | 308.1 (TONS) | OTHER LAND USE AREA | | 1512.3 (ACRES) | | | | |
| | 1334.4 | 1334.4 (ACRES) | | | | | | | |
| | .23 | .23 (TONS/ACRE) | | | | | | | |
| WOODLAND | 1588.9 | 1588.9 (TONS) | MISSING DATA | | 445.1 (ACRES) | | | | |
| | 4097.6 | 4097.6 (ACRES) | | | | | | | |
| | .39 | .39 (TONS/ACRE) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS FROSTION | 66357.5 | 25654.3 | 65512.7 | 74805.0 | 66357.5 | 31432.5 | 91483.0 | 13998.7 | |
| | 4.7 | 1.8 | 4.7 | 5.3 | 4.7 | 2.2 | 3.0 | | |
| PERCENT REDUCTION: | 0.0 | 61.3 | 1.3 | -12.7 | 0.0 | 52.6 | 37.3 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: DELAWARE CREEK | | ANGOLA, NY | | COUNTY: 29 ERIE, NEW YORK | | | | ALL IN BASIN | |
|---------------------------------------|--|---|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|--|-------------------------------|---|
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL P-3/4 AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) |
| 230PLAND 1 | 1186.4 | 360.6 | 1000.1 | 1262.5 | 1106.4 | 260.3 | 833.0 | 889.6 | 222.4 |
| 546 | 1.2 | 1.1 | 1.2 | 1.4 | 1.2 | .3 | .3 | | 2.7 |
| 230PLAND 2 | 494.1 | 484.1 | 472.7 | 552.4 | 484.1 | 123.9 | 369.3 | 422.5 | 0.0 |
| 546 | 1.1 | 1.1 | 1.1 | 1.3 | 1.1 | .3 | .3 | | 0.0 |
| 230PLAND 3 | 2311.6 | 2311.6 | 2257.2 | 2637.3 | 2311.6 | 2311.6 | 2311.6 | 1134.2 | 0.0 |
| 546 | 2.0 | 2.0 | 2.0 | 2.3 | 2.0 | 2.0 | 2.3 | | 0.0 |
| 230PLAND 4 | 8.9 | 8.9 | 8.7 | 10.1 | 8.9 | 6.7 | 6.7 | 22.2 | 9.0 |
| 546 | .4 | .4 | .4 | .5 | .4 | .3 | .3 | | 0.0 |
| 230PLAND 5 | 18.8 | 18.8 | 18.3 | 21.4 | 18.8 | 16.6 | 16.6 | 44.3 | 0.0 |
| 546 | .4 | .4 | .4 | .5 | .4 | .4 | .4 | | 0.0 |
| 230PLAND 10 | 945.6 | 208.2 | 923.4 | 1379.1 | 945.6 | 222.5 | 712.0 | 66.7 | 66.7 |
| 546 | 14.2 | 3.0 | 13.8 | 16.2 | 14.2 | 5.3 | 10.7 | | 14.2 |
| CROPLAND | 4875.4 | 3984.2 | 4760.6 | 5563.5 | 4875.4 | 2933.8 | 4246.6 | 2579.7 | |
| 546 | 1.9 | 1.5 | 1.8 | 2.2 | 1.9 | 1.1 | 1.5 | | |
| VINEYARDS AND ORCH. | 47.6 | 47.6 (TONS) | 47.6 (TONS) | 47.6 (TONS) | 47.6 (TONS) | 47.6 (TONS) | 47.6 (TONS) | 47.6 (TONS) | 47.6 (TONS) |
| 546 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 |
| PASTURE AND PASTURE | 56.9 | 56.9 (TONS) | 56.9 (TONS) | 56.9 (TONS) | 56.9 (TONS) | 56.9 (TONS) | 56.9 (TONS) | 56.9 (TONS) | 56.9 (TONS) |
| 546 | .18 | .18 | .18 | .18 | .18 | .18 | .18 | .18 | .18 |
| WOODLAND | 185.7 | 185.7 (TONS) | 185.7 (TONS) | 185.7 (TONS) | 185.7 (TONS) | 185.7 (TONS) | 185.7 (TONS) | 185.7 (TONS) | 185.7 (TONS) |
| 546 | .17 | .17 | .17 | .17 | .17 | .17 | .17 | .17 | .17 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | |
| 5960.3 | 4952.0 | 5827.8 | 6754.5 | 5960.3 | 5960.3 | 3720.3 | 5234.3 | 4670.3 | |
| 1.3 | 1.1 | 1.2 | 1.4 | 1.3 | 1.3 | .8 | 1.1 | | |
| PERCENT REDUCTION: | | | | | | | | | |
| 0.0 | 17.3 | 2.2 | -13.3 | 0.1 | 37.6 | 12.2 | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS - BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: 18 MILE CREEK | | N. BOSTON, NY | | COUNTY: 29 CRIF, NEW YORK | | ALL IN BASIN | |
|---------------------------------------|---|---|---|--|---|---|--|
| LAND USE | EXISTING POT. REDUCE SOIL SPRING GROSS LOSS TO PLOWING AND EXISTING ONLY (TONS) (TONS/ACRE) | FALL PLOWING ONLY (TONS) (TONS/ACRE) | WINTER COVER CROP (TONS) (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS) (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOW AREA (TONS) (TONS/ACRE) | SOIL WGMT. 3400P LAND AREA (ACRES) | EXISTING SOIL LOSS BY FACTOR (ACRES) (TONS/ACRE) |
| 1 CROPLAND | 9702.1 2.5 | 9473.8 2.4 | 11071.8 2.8 | 9702.1 2.5 | 7305.1 1.9 | 3758.5 | 44.5 3.3 |
| 2 CROPLAND | 1353.5 2.9 | 1321.6 2.8 | 1544.6 3.3 | 1353.5 2.9 | 1019.1 2.2 | 467.0 | 0.0 0.0 |
| 3 CROPLAND | 7401.9 3.7 | 7227.8 3.6 | 8486.0 4.2 | 7401.9 3.7 | 7401.9 3.7 | 2023.3 | 2023.3 3.7 |
| 4 CROPLAND | 65.1 .7 | 63.6 .7 | 74.3 .8 | 65.1 .7 | 49.0 .6 | 49.0 | 0.0 0.0 |
| 5 CROPLAND | 137.7 .4 | 134.4 .4 | 157.1 .5 | 137.7 .4 | 137.7 .4 | 311.4 | 0.0 0.0 |
| 10 CROPLAND | 15839.3 18.7 | 15466.6 18.5 | 18075.4 21.4 | 15839.3 18.7 | 11926.1 14.1 | 805.1 | 845.1 19.7 |
| 1 CROPLAND | 34499.6 4.5 | 33687.8 4.4 | 39370.1 5.1 | 34499.6 4.5 | 27839.9 3.5 | 7694.9 | |
| VINEYARDS AND ORCH. | 126.6 89.0 1.42 | 126.6 (TONS) 89.0 (ACRES) 1.42 (TONS/ACRE) | 126.6 (TONS) 89.0 (ACRES) 1.42 (TONS/ACRE) | 126.6 (TONS) 89.0 (ACRES) 1.42 (TONS/ACRE) | 126.6 (TONS) 89.0 (ACRES) 1.42 (TONS/ACRE) | | |
| BRASSLAND AND PASTURE | 295.9 1423.3 .21 | 295.9 (TONS) 1423.3 (ACRES) .21 (TONS/ACRE) | 295.9 (TONS) 1423.3 (ACRES) .21 (TONS/ACRE) | 295.9 (TONS) 1423.3 (ACRES) .21 (TONS/ACRE) | 295.9 (TONS) 1423.3 (ACRES) .21 (TONS/ACRE) | | |
| WOODLAND | 6140.9 11142.0 .55 | 6140.9 (TONS) 11142.0 (ACRES) .55 (TONS/ACRE) | 6140.9 (TONS) 11142.0 (ACRES) .55 (TONS/ACRE) | 6140.9 (TONS) 11142.0 (ACRES) .55 (TONS/ACRE) | 6140.9 (TONS) 11142.0 (ACRES) .55 (TONS/ACRE) | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | |
| | 42588.7 2.0 | 41746.8 2.0 | 47640.2 2.5 | 42588.7 2.0 | 21201.2 1.0 | 35680.5 1.7 | 21105.3 |
| PERCENT REDUCTION: | 0.0 | 36.3 | -11.9 | 0.0 | 50.1 | 16.2 | |

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CORPS OF ENGINEERS BUFFALO N Y BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES IN THE LAKE ERIE DRAINAGE BASIN.(U)
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Direct Drainage Areas

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: DIRECT DRAINAGE MAINFILL

COUNTY: 30 ST. CLAIR, MICHIGAN

| LAND USE | EXISTING GROSS FROSTION (TONS) | POT. REDUCE LOSS TO FROSTION AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER CRIP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL WGT. 34JJP LAND (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) |
|---------------------------------------|--------------------------------|---|--------------------------|--------------------|----------------------------------|--|------------------------------|---------------------------------------|
| CROPLAND 1 | 8817.3 | 5980.2 | 10222.9 | 4817.3 | 2939.1 | 6900.5 | 4510.0 | 1570.0 |
| 34G | 2.0 | 1.3 | 2.3 | 2.0 | .7 | 1.5 | 4.4 | 4.4 |
| CROPLAND 2 | 15656.9 | 15430.0 | 14152.9 | 15656.9 | 5219.0 | 12253.2 | 44249.4 | 7.8 |
| 34S | .4 | .4 | .4 | .4 | .1 | .5 | 0.0 | 0.0 |
| CROPLAND 3 | 5747.3 | 5747.3 | 6663.6 | 5747.3 | 5747.3 | 5747.3 | 11539.9 | 0.0 |
| 34G | .5 | .5 | .6 | .5 | .5 | .5 | 0.0 | 0.0 |
| CROPLAND 4 | 1279.9 | 1279.9 | 1463.9 | 1279.9 | 1001.6 | 1001.6 | 5670.0 | 0.0 |
| 34G | .2 | .2 | .3 | .2 | .2 | .2 | 0.0 | 0.0 |
| CROPLAND 5 | 5010.3 | 4937.7 | 5809.0 | 5010.3 | 5010.3 | 5010.3 | 23739.5 | 0.0 |
| 34G | .2 | .2 | .3 | .2 | .2 | .2 | 0.0 | 0.0 |
| CROPLAND 9 | 619.6 | 610.7 | 710.4 | 619.6 | 619.6 | 619.6 | 3139.9 | 0.0 |
| 34S | .2 | .2 | .2 | .2 | .2 | .2 | 0.0 | 0.0 |
| CROPLAND 10 | 37131.3 | 34294.2 | 43050.7 | 37131.3 | 20536.9 | 31532.3 | 92148.9 | 0.0 |
| 34G | .4 | .4 | .5 | .4 | .2 | .3 | 0.0 | 0.0 |
| VINEYARDS AND ORCH. | 118.3 | 118.3 (TONS) | WATER AREA ONLY | 2330.0 (ACRES) | | | | |
| 34G | .39 | .39 (TONS/ACRE) | | | | | | |
| PASTURE | 235.1 | 235.1 (TONS) | OTHER LAND USE AREA | 31459.5 (ACRES) | | | | |
| 34G | .02 | .02 (TONS/ACRE) | | | | | | |
| WOODLAND | 363.7 | 363.7 (TONS) | MISSING DATA | 162188.4 (ACRES) | | | | |
| 34G | .04 | .04 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 90364.0 | 83591.1 | 104497.7 | 90364.0 | 50744.9 | 76997.4 | 279077.0 | |
| PERCENT REDUCTION: | 0.0 | 7.5 | 1.4 | -15.6 | 0.0 | 43.8 | 14.8 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

3ASIN: DIRECT DRAINAGE MAINFIL

COUNTY: 38 MACOMB, MICHIGAN

| LAND USE | EXISTING POT-REDUCE SOIL SPRING GROSS LOSS TO T. PLOWING AND EXISTING ONLY (TONS) (TONS/ACRE) | FALL PLOWING ONLY (TONS) (TONS/ACRE) | WINTER COVER CROP (TONS) (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS) (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) (TONS/ACRE) | SOIL MGMT. SLOP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (ACRES) (TONS/ACRE) |
|---------------------------------------|---|--|--|--|--|--|---|
| 1 S46 | 1684.1 1.1 | 1661.7 1.1 | 1919.9 1.3 | 536.8 0.2 | 931.9 0.6 | 1500.0 | 0.0 0.0 |
| 2 S46 | 11421.7 0.8 | 11269.4 0.8 | 11269.4 0.8 | 2284.3 0.2 | 6320.3 0.1 | 14229.9 | 0.0 0.0 |
| 3 S46 | 4542.0 1.5 | 4401.5 1.5 | 4481.5 1.5 | 4542.0 1.5 | 4542.0 1.5 | 3000.0 | 0.0 0.0 |
| 4 S46 | 2400.0 0.5 | 2368.0 0.5 | 2368.0 0.5 | 1328.0 0.3 | 1328.0 0.3 | 5160.0 | 0.0 0.0 |
| 5 S46 | 107.3 0.4 | 105.9 0.4 | 105.9 0.4 | 107.3 0.4 | 107.3 0.4 | 200.0 | 0.0 0.0 |
| 8 S46 | 68.4 0.4 | 67.5 0.4 | 67.5 0.4 | 37.4 0.2 | 37.4 0.2 | 160.0 | 0.0 0.0 |
| 8 S46 | 20223.5 0.8 | 19954.0 0.8 | 19954.0 0.8 | 8636.2 0.4 | 13267.0 0.3 | 24409.0 | 0.0 0.0 |
| 8 S46 | 27.3 0.0 | 27.3 0.0 | 27.3 0.0 | 770.0 0.0 | 770.0 0.0 | 0.0 | 0.0 0.0 |
| 8 S46 | 214.7 0.01 | 214.7 0.01 | 214.7 0.01 | 40839.6 0.0 | 40839.6 0.0 | 0.0 | 0.0 0.0 |
| 8 S46 | 65.2 0.02 | 65.2 0.02 | 65.2 0.02 | 10899.9 0.0 | 10899.9 0.0 | 0.0 | 0.0 0.0 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 25775.2 0.5 | 25036.9 0.5 | 25329.9 0.5 | 11228.0 0.2 | 17041.7 0.3 | 53569.6 | 0.0 0.0 |
| PERCENT REDUCTION: | 6.0 | 0.0 | 1.3 | 56.4 | 33.3 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: DIRECT DRAINAGE MAINFILL | | | | | | | | | |
|--|--|-------------------------------|-------------------------------|---------------------------------------|---|--|---------------------------------------|----------|------|
| COUNTY: 4) WAYNE, MICHIGAN | | | | | | | | | |
| LAND USE | EXISTING POT-REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. 3RD PL. LAND TILLAGE AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) | | |
| 1. CROPLAND 1 | 1550.3 | 1265.8 | 1541.1 | 1713.3 | 1558.3 | 292.7 | 817.9 | 1080.0 | 30.0 |
| 2. CROPLAND 2 | 14566.2 | 14566.2 | 14405.2 | 16014.8 | 14566.2 | 2736.2 | 7645.2 | 16559.3 | 0.0 |
| 3. CROPLAND 3 | 3266.1 | 3266.1 | 3230.0 | 3590.9 | 3266.1 | 1714.3 | 1710.3 | 6420.0 | 0.0 |
| 4. CROPLAND 4 | 140.1 | 140.1 | 138.6 | 154.1 | 140.1 | 140.1 | 140.1 | 170.0 | 0.0 |
| 5. CROPLAND 5 | 19538.7 | 19238.2 | 19314.9 | 21473.1 | 19530.7 | 4483.3 | 10317.5 | 24229.9 | 0.0 |
| 6. VINEYARDS AND ORCH. | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 610.0 | 610.0 | 610.0 | 0.0 |
| 7. PASTURE AND PASTURE | 420.1 | 420.1 | 420.1 | 420.1 | 420.1 | 34935.6 | 34935.6 | 34935.6 | 0.0 |
| 8. WOODLAND | 200.1 | 200.1 | 200.1 | 200.1 | 200.1 | 80167.2 | 80167.2 | 80167.2 | 0.0 |
| 9. SUMMARY TOTAL POTENTIAL GROSS EROSION | 51586.2 | 50760.2 | 50955.4 | 56459.9 | 51586.2 | 14150.3 | 28009.4 | 145036.9 | 0.0 |
| PERCENT REDUCTIONS: | 0.0 | 1.4 | 1.1 | -9.6 | 0.0 | 72.5 | 45.6 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: DIRECT DRAINAGE MAINFEL | | | | | | | | | | COUNTY: AC-WASHTENAW-- MICHIGAN | | | | | | | | | |
|---------------------------------------|-------------------------------|--|--|--------------------------|--------------------|----------------------------------|--|--------------------------------------|---|---------------------------------------|-------------------------------|--|--|--------------------------|--------------------|----------------------------------|--|--------------------------------------|---|
| LAND USE | EXISTING GROSS EROSION (TONS) | POT. LOSS TO T. AND EXISTING ONLY (TONS) | SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. 3RD PL. LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) | LAND USE | EXISTING GROSS EROSION (TONS) | POT. LOSS TO T. AND EXISTING ONLY (TONS) | SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS) | SOIL MGMT. 3RD PL. LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) |
| 1--CROPLAND 1 | 9765.4 | 8019.7 | 9598.5 | 11170.8 | 9515.0 | 1919.7 | 5170.3 | 9220.3 | 1279.0 | 2--CROPLAND 2 | 5775.6 | 5775.6 | 5676.9 | 6565.4 | 5627.5 | 1135.4 | 3060.6 | 12949.3 | 0.0 |
| 546 | 2.0 | 1.6 | 2.0 | 2.3 | 1.9 | .4 | 1.1 | | 4.2 | 546 | .5 | .5 | .5 | .6 | .5 | .1 | .3 | | 0.0 |
| 2--CROPLAND 3 | 3131.2 | 3131.2 | 3077.7 | 3559.4 | 3050.9 | 3131.2 | 3131.2 | 1920.0 | 0.0 | 546 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | | 0.0 |
| 546 | 1.6 | 1.6 | 1.6 | 1.9 | 1.6 | 1.6 | 1.5 | | 0.0 | 2--CROPLAND 4 | 1561.0 | 1561.0 | 1534.3 | 1774.5 | 1521.0 | 427.2 | 927.2 | 4450.0 | 0.0 |
| 546 | .4 | .4 | .3 | .4 | .3 | .2 | .2 | | 0.0 | 546 | .4 | .3 | .3 | .4 | .3 | .2 | .2 | | 0.0 |
| 2--CROPLAND 5 | 82.8 | 82.8 | 81.4 | 94.1 | 80.7 | 82.8 | 82.8 | 240.3 | 0.0 | 546 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | | 0.0 |
| 546 | .3 | .3 | .3 | .3 | .3 | .3 | .3 | | 0.0 | 2--CROPLAND 10 | 82.2 | 82.2 | 80.8 | 93.4 | 80.1 | 16.2 | 43.5 | 10.0 | 10.0 |
| 546 | 8.2 | 8.2 | 8.1 | 9.3 | 8.0 | 1.6 | 4.4 | | 4.2 | 546 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | | 4.2 |
| 1--CROPLAND 20398.2 | 18620.3 | 20049.6 | 23187.6 | 19875.2 | 7112.5 | 12320.2 | 22429.9 | | | 1--CROPLAND 20398.2 | 18620.3 | 20049.6 | 23187.6 | 19875.2 | 7112.5 | 12320.2 | 22429.9 | | |
| 546 | .9 | .8 | .9 | 1.0 | .9 | .3 | .5 | | | 546 | .9 | .9 | .9 | .9 | .9 | .3 | .5 | | |
| VINEYARDS AND ORCH. | 144.5 | 144.5 (TONS) | JATER AREA ONLY | 170.0 (ACRES) | | | | | | VINEYARDS AND ORCH. | 320.0 | 320.0 (ACRES) | 320.0 (ACRES) | 320.0 (ACRES) | 320.0 (ACRES) | 320.0 (ACRES) | 320.0 (ACRES) | | |
| 546 | .45 | .45 (TONS/ACRE) | | | | | | | | 546 | .45 | .45 (TONS/ACRE) | | | | | | | |
| 3--CROPLAND AND PASTURE | 284.2 | 284.2 (TONS) | OTHER LAND USE AREA | 10099.9 (ACRES) | | | | | | 3--CROPLAND AND PASTURE | 5500.0 | 5500.0 (ACRES) | 5500.0 (ACRES) | 5500.0 (ACRES) | 5500.0 (ACRES) | 5500.0 (ACRES) | 5500.0 (ACRES) | | |
| 546 | .05 | .05 (TONS/ACRE) | | | | | | | | 546 | .05 | .05 (TONS/ACRE) | | | | | | | |
| 4--CROPLAND | 157.5 | 157.5 (TONS) | MISSING DATA | 6150.0 (ACRES) | | | | | | 4--CROPLAND | 3060.0 | 3060.0 (ACRES) | 3060.0 (ACRES) | 3060.0 (ACRES) | 3060.0 (ACRES) | 3060.0 (ACRES) | 3060.0 (ACRES) | | |
| 546 | .05 | .05 (TONS/ACRE) | | | | | | | | 546 | .05 | .05 (TONS/ACRE) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 25106.2 | 22979.1 | 24689.2 | 28443.5 | 24480.5 | 9210.9 | 15441.3 | 37459.9 | | SUMMARY TOTAL POTENTIAL GROSS EROSION | 25106.2 | 22979.1 | 24689.2 | 28443.5 | 24480.5 | 9210.9 | 15441.3 | 37459.9 | |
| PERCENT REDUCTION: | 0.0 | 0.5 | 1.7 | -13.3 | 2.5 | 63.3 | 34.3 | | | PERCENT REDUCTION: | 0.0 | 0.5 | 1.7 | -13.3 | 2.5 | 63.3 | 34.3 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: DIRECT DRAINAGE MAINPIL | | | | | | | | | |
|---|---|-------------------------------|-------------------------------|---------------------------------------|---|----------------------|---------------------------------------|----------|-----|
| COUNTY: 01 MONROE, MICHIGAN (THACOG TOWNSHIPS 0 | | | | | | | | | |
| LAND USE | EXISTING POT-REDUCE SOIL SPRING LOSS TO T PLODING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | JINTER COVER CROP (TONS/ACRE) | WARIYU4 REDUCTION TILLAGE (TONS/ACRE) | REDUCE) TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MONT. 333P LAND | EXISTING SOIL LOSS > T FACTOR (ACRES) | | |
| 1 | 12678.8 | 12333.9 | 12034.2 | 12786.3 | 12678.8 | 12678.8 | 9777.6 | 148.0 | 5.5 |
| 2 | 39889.1 | 39889.1 | 37860.8 | 40227.1 | 39889.1 | 5746.7 | 39889.1 | 0.0 | 0.0 |
| 3 | 40279.7 | 40279.7 | 38231.6 | 40621.0 | 40279.7 | 40279.7 | 21388.6 | 0.0 | 0.0 |
| 4 | 41086.6 | 41086.6 | 38921.5 | 41354.1 | 41086.6 | 17896.9 | 55577.9 | 0.0 | 0.0 |
| 5 | 1214.6 | 1214.6 | 1152.9 | 1224.9 | 1214.6 | 1214.6 | 1457.9 | 0.0 | 0.0 |
| 6 | 135068.8 | 134723.9 | 128201.0 | 136213.4 | 135068.8 | 66964.5 | 82338.3 | 126981.4 | 0.5 |
| VINEYARDS AND ORCH. | 224.6 | 224.6 (TONS) | 586.4 (ACRES) | 3160.4 (ACRES) | | | | | |
| GRASSLAND AND PASTURE | 254.1 | 254.1 (TONS) | 19837.4 (ACRES) | 45281.7 (ACRES) | | | | | |
| WOODLAND | 326.7 | 326.7 (TONS) | 16117.5 (ACRES) | 143806.0 (ACRES) | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 255438.5 | 254799.1 | 242527.3 | 257590.3 | 255438.5 | 127404.9 | 156299.0 | 307228.7 | 0.5 |
| PERCENT REDUCTION: | 0.0 | 0.3 | 5.1 | 0.9 | 0.0 | 56.1 | 38.8 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: DIRECT DRAINAGE MAINFEL | | | | | | | | | |
|--------------------------------|--|---|-------------------------------|-------------------------------|---------------------------------------|--|-----------------------------------|---|--|
| COUNTY: 00 LEAVELLE, MICHIGAN | | | | | | | | | |
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | REDUCE SOIL SPRING LOSS TO PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE) | SOIL MOIST. SOIL LAND (TONS/ACRE) | EXISTING SOIL LOSS > 7 FACTOR (TONS/ACRE) | |
| 1 | 1095.4 | 800.6 | 1043.2 | 1199.7 | 1056.5 | 150.9 | 177.9 | 177.9 | |
| 546 | 6.2 | 4.5 | 5.9 | 6.5 | 5.9 | 2.5 | 6.2 | 6.2 | |
| 2 | 6260.6 | 6260.6 | 5946.5 | 6564.6 | 6032.5 | 661.8 | 2512.9 | 2512.9 | |
| 343 | 2.7 | 2.7 | 2.6 | 2.8 | 2.6 | 1.2 | 0.0 | 0.0 | |
| 4 | 5571.6 | 5571.6 | 5300.9 | 5842.3 | 5368.6 | 2368.5 | 5327.6 | 5327.6 | |
| 546 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .4 | 0.0 | 0.0 | |
| 5 | 336.5 | 336.5 | 320.1 | 352.8 | 324.2 | 336.5 | 572.1 | 572.1 | |
| 543 | .5 | .5 | .5 | .5 | .5 | .5 | 0.0 | 0.0 | |
| 1 | 13265.1 | 12969.3 | 12620.7 | 13909.6 | 12781.8 | 3717.7 | 5932.5 | 5932.5 | |
| 2 | 1.6 | 1.5 | 1.5 | 1.6 | 1.5 | .4 | .7 | .7 | |
| 3 | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 266.9 (ACRES) | | | | |
| 4 | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | |
| 5 | 0.0 | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | | | | | |
| 6 | 6.3 | 6.3 (TONS) | 6.3 (TONS) | 6.3 (TONS) | 355.8 (ACRES) | | | | |
| 7 | 266.9 | 266.9 (ACRES) | 266.9 (ACRES) | 266.9 (ACRES) | | | | | |
| 8 | .02 | .02 (TONS/ACRE) | .02 (TONS/ACRE) | .02 (TONS/ACRE) | | | | | |
| 9 | 17.7 | 17.7 (TONS) | 17.7 (TONS) | 17.7 (TONS) | 89.0 (ACRES) | | | | |
| 10 | 484.3 | 484.3 (ACRES) | 484.3 (ACRES) | 484.3 (ACRES) | | | | | |
| 11 | .04 | .04 (TONS/ACRE) | .04 (TONS/ACRE) | .04 (TONS/ACRE) | | | | | |
| 12 | 13417.1 | 13118.4 | 12766.5 | 14067.8 | 12929.1 | 3777.7 | 5912.9 | 5912.9 | |
| 13 | 1.4 | 1.4 | 1.4 | 1.5 | 1.4 | .4 | .5 | .5 | |
| 14 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 15 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| 16 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 18 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 19 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 20 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 21 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 22 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 23 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 24 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 25 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 26 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 27 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 28 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 29 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 31 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 32 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 33 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 34 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 35 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 36 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 37 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 38 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 39 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 40 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 41 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 42 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 43 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 44 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 45 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 46 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 47 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 48 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 49 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 50 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 51 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 52 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 53 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 54 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 55 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 56 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 57 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 58 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 59 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 60 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 61 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 62 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 63 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 64 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 65 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 66 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 67 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 68 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 69 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 70 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 71 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 72 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 73 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 74 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 75 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 76 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 77 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 78 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 79 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 81 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 82 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 83 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 84 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 85 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 86 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 87 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 93 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 94 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 96 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 97 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 98 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 99 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: DIRECT DRAINAGE MAINFILL | | | | | | | | | | | | | |
|---------------------------------------|--|--|--|--|-------------------------------|---------------------------------------|---|-----------------------------------|---------------------------------------|--|--|--|--|
| COUNTY: 09 LUCAS, OHIO | | | | | | | | | | | | | |
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CRIP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CRIPSEL P. 3D AREA (TONS/ACRE) | SOIL MGMT. 3D3D LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) | | | | |
| 1 CROPLAND 346 | 15581.5 9.9 | 6967.0 4.5 | 24788.8 9.5 | 16218.2 16.4 | 15085.8 9.7 | 2138.1 1.4 | 6416.0 4.1 | 1561.7 | 1339.4 22.4 | | | | |
| 2 CROPLAND 346 | 29121.1 1.0 | 27782.2 .9 | 30460.0 1.0 | 28390.1 1.0 | 4016.7 .1 | 12058.1 .4 | 29563.7 | 0.0 | 0.0 | | | | |
| 3 CROPLAND 346 | 18687.7 7.1 | 7857.9 3.0 | 17752.1 6.8 | 19453.2 7.4 | 18108.6 6.9 | 18607.7 7.1 | 18607.7 | 2619.3 | 2619.3 7.1 | | | | |
| 4 CROPLAND 346 | 15572.5 1.1 | 14856.6 1.1 | 14856.6 1.0 | 16288.5 1.1 | 15154.9 1.0 | 6443.8 .4 | 6443.3 | 10747.2 | 0.0 | | | | |
| 5 CROPLAND 346 | 1616.4 .7 | 1542.1 .7 | 1690.7 .8 | 1690.7 .8 | 1573.1 .7 | 1616.4 .7 | 1616.4 | 2243.7 | 0.0 | | | | |
| 6 CROPLAND 346 | 22248.9 .9 | 21218.3 .9 | 23263.5 1.0 | 21844.4 .9 | 3203.1 .4 | 9203.1 .4 | 23919.9 | 0.0 | 0.0 | | | | |
| 7 CROPLAND 346 | 102660.1 1.4 | 83375.8 1.1 | 97940.7 1.3 | 107380.1 1.4 | 99906.9 1.3 | 42025.8 .6 | 54335.3 | 14655.4 | | | | | |
| VINEYARDS AND ORCH. | 250.3 395.4 .63 | 250.3 (TONS) 395.4 (ACRES) .63 (TONS/ACRE) | 250.3 (TONS) 395.4 (ACRES) .63 (TONS/ACRE) | 250.3 (TONS) 395.4 (ACRES) .63 (TONS/ACRE) | 3133.3 (ACRES) | | | | | | | | |
| GRASSLAND AND PASTURE | 631.8 23573.8 .03 | 631.8 (TONS) 23573.8 (ACRES) .03 (TONS/ACRE) | 631.8 (TONS) 23573.8 (ACRES) .03 (TONS/ACRE) | 631.8 (TONS) 23573.8 (ACRES) .03 (TONS/ACRE) | 49559.4 (ACRES) | | | | | | | | |
| WOODLAND | 412.8 14342.0 .03 | 412.8 (TONS) 14342.0 (ACRES) .03 (TONS/ACRE) | 412.8 (TONS) 14342.0 (ACRES) .03 (TONS/ACRE) | 412.8 (TONS) 14342.0 (ACRES) .03 (TONS/ACRE) | 46475.5 (ACRES) | | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 146723.0 -9 | 119505.0 .7 | 146061.2 .9 | 153384.9 1.0 | 142837.2 .9 | 51143.2 .4 | 78317.3 .3 | 143442.1 | | | | | |
| PERCENT REDUCTION: | 0.0 | 18.6 | 4.5 | -4.5 | 2.6 | 59.3 | 45.3 | | | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS
COUNTY: 47 FULTON, OHIO

343IN: DIRECT DRAINAGE MAINFILL

| LAND USE | EXISTING GROSS EROSION (TONS) | EXISTING POTENTIAL GROSS EROSION (TONS) | LOSS TO TILLAGE ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE (TONS) | SOIL LOSS FACTOR (TONS/ACRE) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
|---------------------------------------|-------------------------------|---|-----------------------------|--------------------------|--------------------------|----------------------------------|------------------------|------------------------------|---------------------------------------|
| 346 CROPLAND | 28854.8 | 20490.3 | 27361.6 | 30247.0 | 26764.6 | 3243.4 | 11048.1 | 4781.5 | 533.7 |
| 346 CROPLAND | 5.4 | 4.1 | 5.5 | 6.1 | 5.4 | .7 | 2.2 | 14.3 | 14.3 |
| 346 CROPLAND | 36711.4 | 31232.1 | 34812.5 | 34833.7 | 34053.0 | 4177.5 | 14851.5 | 24354.7 | 1295.9 |
| 346 CROPLAND | 1.5 | 1.3 | 1.4 | 1.5 | 1.4 | .2 | .5 | 7.3 | 7.3 |
| 346 CROPLAND | 6243.1 | 2935.6 | 5928.1 | 6544.4 | 5791.0 | 6243.1 | 6243.1 | 978.5 | 978.5 |
| 346 CROPLAND | 6.4 | 3.0 | 6.1 | 6.7 | 5.9 | 6.4 | 6.4 | 6.4 | 6.4 |
| 346 CROPLAND | 30693.3 | 30693.3 | 29105.7 | 32175.1 | 28470.7 | 11748.1 | 11748.1 | 29237.5 | 0.0 |
| 346 CROPLAND | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .4 | .4 | 0.0 | 0.0 |
| 346 CROPLAND | 1779.9 | 1779.9 | 1687.9 | 1865.9 | 1651.0 | 1779.9 | 1779.9 | 1482.6 | 7.3 |
| 346 CROPLAND | 1.2 | 1.2 | 1.1 | 1.3 | 1.1 | 1.2 | 1.2 | 0.3 | 0.3 |
| 346 CROPLAND | 478.2 | 478.2 | 453.3 | 501.3 | 443.6 | 183.0 | 183.0 | 444.4 | 0.0 |
| 346 CROPLAND | 1.1 | 1.1 | 1.0 | 1.1 | 1.0 | .4 | .4 | 0.0 | 0.0 |
| 346 CROPLAND | 101.3 | 101.3 | 96.0 | 106.1 | 93.9 | 101.3 | 101.3 | 89.0 | 0.0 |
| 346 CROPLAND | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | 1.1 | 1.1 | 0.9 | 0.9 |
| 346 CROPLAND | 104861.2 | 87710.7 | 99437.3 | 109923.5 | 97267.8 | 27516.3 | 45151.1 | 61568.7 | |
| 346 CROPLAND | 1.7 | 1.4 | 1.6 | 1.6 | 1.6 | .4 | .7 | | |
| VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 2668.7 (ACRES) | | | | |
| 346 CROPLAND | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 7442.8 (ACRES) | | | | |
| 346 CROPLAND | 0.0 | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | | | | | |
| 346 CROPLAND | 47.6 | 47.6 (TONS) | 47.6 (TONS) | 47.6 (TONS) | 0.0 (ACRES) | | | | |
| 346 CROPLAND | 2846.7 | 2846.7 (ACRES) | 2846.7 (ACRES) | 2846.7 (ACRES) | | | | | |
| 346 CROPLAND | .82 | .82 (TONS/ACRE) | .82 (TONS/ACRE) | .82 (TONS/ACRE) | | | | | |
| 346 CROPLAND | 298.6 | 298.6 (TONS) | 298.6 (TONS) | 298.6 (TONS) | | | | | |
| 346 CROPLAND | 6642.2 | 6642.2 (ACRES) | 6642.2 (ACRES) | 6642.2 (ACRES) | | | | | |
| 346 CROPLAND | .84 | .84 (TONS/ACRE) | .84 (TONS/ACRE) | .84 (TONS/ACRE) | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 105149.4 | 27998.9 | 99725.5 | 110211.7 | 97556.0 | 27804.5 | 45439.3 | 71057.6 | |
| PERCENT REDUCTION: | 0.0 | 16.3 | 5.2 | -4.8 | 7.2 | 73.6 | 56.4 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: DIRECT DRAINAGE MAINFILL

COUNTY: 15 HENRY, OHIO

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL P. OF AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > T FACTOR (TONS/ACRE) |
|---------------------------------------|--|--|-------------------------------|-------------------------------|---------------------------------------|--|------------------------------------|---|
| 1 CROPLAND | 1104.6 | 1104.6 | 1104.5 | 1096.1 | 143.3 | 459.3 | 446.0 | 0.0 |
| 2 CROPLAND | 645.9 | 645.9 | 602.2 | 597.6 | 76.1 | 250.5 | 363.4 | 0.0 |
| 3 CROPLAND | 339.4 | 339.4 | 316.5 | 314.1 | 131.7 | 131.7 | 355.8 | 0.0 |
| 4 CROPLAND | 814.1 | 814.1 | 759.1 | 753.3 | 914.1 | 814.1 | 593.1 | 0.0 |
| 5 CROPLAND | 1832.1 | 177.9 | 1708.2 | 1695.2 | 1832.1 | 1832.1 | 89.0 | 49.0 |
| 6 CROPLAND | 4816.1 | 3161.9 | 4490.5 | 4456.3 | 2999.3 | 3487.9 | 2066.1 | 28.6 |
| 7 VINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 | 0.0 | 0.0 |
| 8 GRASSLAND AND PASTURE | 266.9 | 266.9 (TONS) | 266.9 (ACRES) | 266.9 (ACRES) | 266.9 (ACRES) | 266.9 | 0.0 | 0.0 |
| 9 WOODLAND | 67.9 | 67.9 (TONS) | 67.9 (ACRES) | 67.9 (ACRES) | 67.9 (ACRES) | 67.9 | 0.0 | 0.0 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 5006.8 | 3312.2 | 4673.2 | 4634.2 | 3145.0 | 3646.2 | 3736.0 | |
| PERCENT REDUCTION: | 0.0 | 33.8 | 6.7 | -2.4 | 17.2 | 27.2 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

3ASIVE: DIRECT DRAINAGE MAINFILL

COUNTY: DA WOODS OHIO

| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO SPRING AND EXISTING ONLY (TONS) | SPRING PLOWING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE (TONS) | SOIL MGMT. REDUCED TILLAGE (TONS) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
|---------------------------------------|--|---|----------------------------|--------------------------|--------------------|----------------------------------|------------------------|-----------------------------------|---------------------------------------|
| 1 | 7210.7 | 5403.2 | 6761.6 | 7501.2 | 6761.6 | 998.0 | 2873.0 | 1910.1 | 345.9 |
| 2 | 3865.0 | 27206.7 | 36444.8 | 40450.9 | 36444.8 | 4840.3 | 15517.5 | 13294.2 | 4744.4 |
| 3 | 14122.0 | 6961.0 | 13242.6 | 14691.0 | 13242.6 | 14122.0 | 14122.0 | 2320.3 | 2320.3 |
| 4 | 19479.9 | 19479.9 | 14266.8 | 20264.8 | 14266.8 | 7777.7 | 7777.7 | 17719.9 | 0.0 |
| 5 | 2040.4 | 1842.4 | 1913.4 | 2122.7 | 1913.4 | 2040.4 | 2040.4 | 1495.0 | 354.3 |
| 6 | 82655.6 | 82655.6 | 77508.5 | 85986.0 | 77508.5 | 33001.7 | 33001.7 | 75436.2 | 0.0 |
| 7 | 164373.6 | 143348.8 | 154137.7 | 170996.6 | 154137.7 | 62540.1 | 75339.3 | 112175.7 | 0.0 |
| VINEYARDS AND ORCH. | 53.3 | 50.2 (TONS) | 49.4 (ACRES) | 859.9 (ACRES) | 859.9 (ACRES) | 859.9 (ACRES) | 859.9 (ACRES) | 859.9 (ACRES) | 859.9 (ACRES) |
| GRASSLAND AND PASTURE | 281.5 | 281.5 (TONS) | 10726.8 (ACRES) | 14527.3 (ACRES) | 14527.3 (ACRES) | 14527.3 (ACRES) | 14527.3 (ACRES) | 14527.3 (ACRES) | 14527.3 (ACRES) |
| 400DLAND | 275.1 | 275.1 (TONS) | 6489.0 (ACRES) | 4138.8 (ACRES) | 4138.8 (ACRES) | 4138.8 (ACRES) | 4138.8 (ACRES) | 4138.8 (ACRES) | 4138.8 (ACRES) |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 170284.2 | 149203.7 | 159719.5 | 177120.0 | 159719.5 | 63323.4 | 74388.3 | 133599.7 | 0.0 |
| PERCENT REDUCTION: | 0.0 | 12.4 | 6.2 | -4.0 | 6.2 | 61.6 | 54.0 | 54.0 | 0.0 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: DIRECT DRAINAGE MAINFIL | | | | | | | | | |
|---|------------------------------------|-------------------|-------------------|---------------------------------------|---|------------------------------------|---------------------------------------|----------|---------|
| COUNTY: DS CUYAHGA, OHIO | | | | | | | | | |
| LAND USE | EXISTING POT. REDUCE SOIL SPRING | FALL PLOWING ONLY | WINTER COVER CROP | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOUGH AREA (TONS/ACRE) | SOIL MGMT. SETUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) | | |
| EROSION AND EXISTING ONLY (TONS/ACRE) | LOSS TO T PLOWING ONLY (TONS/ACRE) | ONLY (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (TONS/ACRE) | (ACRES) | (TONS/ACRE) | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| CROPLAND 1 | 1341.9 | 1890.4 | 1262.6 | 1415.5 | 1262.6 | 181.2 | 536.1 | 227.3 | 4.1 |
| 346 | 4.0 | 3.2 | 3.8 | 4.2 | 3.6 | .5 | | | |
| CROPLAND 2 | 7671.5 | 6050.5 | 7218.3 | 6092.3 | 7218.3 | 1035.8 | 3334.3 | 2233.9 | 1947.2 |
| 346 | 3.4 | 2.7 | 3.2 | 3.5 | 3.2 | .5 | 1.3 | 3.0 | |
| CROPLAND 3 | 155897.0 | 57674.3 | 146687.9 | 164448.4 | 146687.9 | 155897.0 | 155897.0 | 13224.9 | 19224.8 |
| 346 | 8.1 | 3.0 | 7.6 | 8.6 | 7.6 | 8.1 | 9.1 | 8.1 | |
| CROPLAND 4 | 10515.0 | 10515.0 | 5893.9 | 11091.4 | 9893.9 | 4569.8 | 4569.3 | 10269.7 | 0.0 |
| 346 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .4 | .4 | 0.0 | |
| CROPLAND 5 | 22418.0 | 5790.6 | 21093.8 | 23647.7 | 21093.8 | 22418.0 | 22418.0 | 3449.6 | 1136.7 |
| 346 | 6.5 | 1.7 | 6.1 | 6.9 | 6.1 | 6.5 | 6.5 | 37.5 | |
| CROPLAND 8 | 64207.9 | 64207.9 | 60415.0 | 67729.8 | 60415.0 | 27904.7 | 27904.7 | 74378.5 | 0.0 |
| 346 | .9 | .9 | .8 | .9 | .8 | .4 | .4 | 0.0 | |
| [-----] | | | | | | | | | |
| CROPLAND | 262051.3 | 145328.7 | 246571.5 | 276425.5 | 246571.5 | 212006.5 | 214705.7 | 189892.6 | |
| | 2.4 | 1.3 | 2.2 | 2.5 | 2.2 | 1.9 | 2.0 | | |
| LIVESTOCK AND ORCH. | 5978.2 | 2394.7 (TONS) | 1710.0 (ACRES) | 4003.1 (ACRES) | | | | | |
| | 3.50 | 1.75 (TONS/ACRE) | | | | | | | |
| PASTURE AND PASTURE | 618.6 | 618.6 (TONS) | 10655.2 (ACRES) | 18374.7 (ACRES) | | | | | |
| | .06 | .06 (TONS/ACRE) | | | | | | | |
| WOODLAND | 542.4 | 542.4 (TONS) | 8174.2 (ACRES) | 18843.2 (ACRES) | | | | | |
| | .07 | .07 (TONS/ACRE) | | | | | | | |
| [-----] | | | | | | | | | |
| 3 JANUARY TOTAL POTENTIAL GROSS EROSION | 308092.2 | 174501.6 | 290375.4 | 324543.7 | 290375.4 | 253815.2 | 253903.7 | 143281.2 | |
| | 2.1 | 1.2 | 1.9 | 2.2 | 1.9 | 1.7 | 1.7 | | |
| PERCENT REDUCTION: | 0.0 | 43.4 | 5.4 | -5.3 | 5.6 | 18.6 | 17.5 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : FIRST PHASE: WFOUT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

Basin: DIRECT DRAINAGE PAINTFEL

COUNTY: 16 SANDUSKY, OHIO

| LAND USE | EXISTING GROSS EROSION (TONS) | POTENTIAL GROSS EROSION (TONS) | LOSS TO PLACING (TONS) | FALL ONLY (TONS) | PLACING ONLY (TONS) | EXISTING COVER FROM (TONS) | REDUCTION TILLAGE (TONS) | REDUCED TILLAGE (TONS) | SOIL AGMT. 7200 LAND AREA (ACRES) | EXISTING SOIL LOSS (TONS/ACRE) |
|----------|-------------------------------|--------------------------------|------------------------|------------------|---------------------|----------------------------|--------------------------|------------------------|-----------------------------------|--------------------------------|
| 1 | 170565.6 | 132461.8 | 153568.7 | 141305.0 | 162291.9 | 162291.9 | 20366.0 | 60733.4 | 22536.0 | 22535.0 |
| 2 | 79265.7 | 7786.4 | 76012.2 | 84293.7 | 75420.7 | 75420.7 | 9466.6 | 31942.9 | 49702.7 | 2144.9 |
| 3 | 135076.7 | 44478.9 | 130299.7 | 144495.4 | 129285.7 | 129285.7 | 155476.7 | 135476.7 | 14026.3 | 14026.3 |
| 4 | 7058.7 | 7058.7 | 6769.0 | 7506.5 | 6716.3 | 6716.3 | 2944.6 | 2044.5 | 7160.5 | 0.0 |
| 5 | 105590.5 | 19203.2 | 101256.6 | 112288.4 | 100468.6 | 100468.6 | 105590.5 | 105590.5 | 3915.0 | 4131.6 |
| 6 | 82149.5 | 82149.5 | 77777.7 | 87360.4 | 78164.6 | 78164.6 | 33105.0 | 33105.0 | 79216.9 | 0.0 |
| 7 | 560506.7 | 333258.5 | 556679.9 | 617329.8 | 552347.8 | 552347.8 | 307247.4 | 378095.1 | 143265.4 | 0.0 |
| 8 | 777.0 | 627.7 | 627.7 | 627.7 | 627.7 | 627.7 | 2744.9 | 2744.9 | 1.7 | 1.7 |
| 9 | 882.2 | 882.2 | 882.2 | 882.2 | 882.2 | 882.2 | 17055.4 | 17055.4 | 1.4 | 1.4 |
| 10 | 712.1 | 712.1 | 712.1 | 712.1 | 712.1 | 712.1 | 7620.7 | 7620.7 | 46.9 | 46.9 |
| 11 | 15367.2 | 15367.2 | 15367.2 | 15367.2 | 15367.2 | 15367.2 | 15367.2 | 15367.2 | 1.3 | 1.3 |
| 12 | 890.4 | 890.4 | 890.4 | 890.4 | 890.4 | 890.4 | 16054.4 | 16054.4 | 30.7 | 30.7 |
| 13 | 16054.4 | 16054.4 | 16054.4 | 16054.4 | 16054.4 | 16054.4 | 16054.4 | 16054.4 | 1.3 | 1.3 |
| 14 | 57821.2 | 57821.2 | 57821.2 | 57821.2 | 57821.2 | 57821.2 | 57821.2 | 57821.2 | 223209.9 | 223209.9 |
| 15 | 347502.2 | 347502.2 | 347502.2 | 347502.2 | 347502.2 | 347502.2 | 347502.2 | 347502.2 | 1.3 | 1.3 |
| 16 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 34.7 | 34.7 |
| 17 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

SUMMARY TOTAL POTENTIAL GROSS EROSION

PERCENT REDUCTION:

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

3453N: DIRECT DRAINAGE MAINFILL

COUNTY: 33 SENECA, NY10

| LAND USE | EXISTING GROSS EROSION (TONS/ACRE) | POT. LOSS TO T. AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CRIP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CRIPSEL P.-30 AREA (TONS/ACRE) | SOIL MGMT. 613JP LAND (ACRES) | EXISTING SOIL LOSS > 7 FACTOR (TONS/ACRE) |
|---------------------------------------|------------------------------------|--|--------------------------------------|-------------------------------|-------------------------------|---------------------------------------|---|-------------------------------|---|
| 213PLAND 545 1 | 33098.5 4.4 | 25544.4 3.4 | 31375.2 4.2 | 35558.5 4.8 | 33098.5 4.4 | 4880.6 5.7 | 14641.7 2.0 | 7447.7 | 4447.9 5.1 |
| 210PLAND 546 2 | 103707.1 3.6 | 83364.6 2.9 | 98532.1 3.5 | 111669.7 3.9 | 103707.1 3.6 | 15327.2 5.5 | 45901.7 1.5 | 20501.1 | 26677.5 3.8 |
| 212PLAND 546 3 | 4096.9 1.6 | 4096.9 1.6 | 3889.5 1.5 | 4008.1 1.7 | 4096.9 1.6 | 4096.9 1.6 | 4096.9 1.5 | 2594.6 | 0.8 0.8 |
| 213PLAND 546 4 | 10749.3 1.0 | 10749.3 1.0 | 10205.1 1.0 | 11565.8 1.1 | 10749.3 1.0 | 4762.4 5.5 | 4762.4 5.5 | 10501.0 | 0.0 0.0 |
| 210PLAND 546 5 | 524.2 1.0 | 524.2 1.0 | 497.6 5.9 | 564.0 1.1 | 524.2 1.0 | 524.2 1.0 | 524.2 1.8 | 533.7 | 0.0 0.0 |
| 210PLAND 546 8 | 587.8 1.0 | 587.8 1.0 | 558.1 1.0 | 632.5 1.1 | 587.8 1.0 | 260.4 5.4 | 260.4 5.4 | 583.2 | 0.0 0.0 |
| 210PLAND 546 10 | 2763.7 124.5 | 66.7 3.0 | 2623.8 118.2 | 2973.6 153.9 | 2763.7 124.5 | 408.1 18.4 | 1224.4 55.2 | 22.2 | 22.2 124.5 |
| 210PLAND | 155557.5 5.1 | 124933.9 2.5 | 147601.4 2.9 | 167372.2 3.3 | 155557.5 3.1 | 30259.8 5.6 | 71091.7 1.4 | 53263.3 | |
| VINEYARDS AND ORCH. | 0.0 0.0 0.00 | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 0.0 0.0 0.00 | 0.0 0.0 0.00 | 0.0 (ACRES) | | | | |
| BRASSLAND AND PASTURE | 47.9 1183.6 84 | 47.9 (TONS) 1183.6 (ACRES) 84 (TONS/ACRE) | 47.9 1183.6 84 | 47.9 1183.6 84 | 3773.3 (ACRES) | | | | |
| WOODLAND | 234.7 4166.2 86 | 234.7 (TONS) 4166.2 (ACRES) 86 (TONS/ACRE) | 234.7 4166.2 86 | 234.7 4166.2 86 | 7428.6 (ACRES) | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 176634.2 2.6 | 101924.4 2.3 | 167707.1 2.7 | 190025.3 3.0 | 176634.2 2.6 | 34617.7 5.5 | 81391.3 1.3 | 63033.9 | |
| PERCENT REDUCTION: | 0.0 | 19.7 | 5.1 | -7.6 | 0.0 | 80.4 | 93.3 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASELINE: DIRECT DRAINAGE MAINFILL

SCENARIO: 97 (BIO-2013)

| LAND USE | EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER COVER CROP (TONS) | MAXIMUM REDUCTION TILLAGE (TONS) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL REENT. 6130+ LAND AREA (ACRES) | EXISTING SOIL LOSS > 1 FACTOR (ACRES) |
|---------------------------------------|--|--|--------------------------|----------------------------------|---|-------------------------------------|---------------------------------------|
| CROPLAND 1 | 101520.5 5.4 | 73291.1 3.9 | 95990.2 5.1 | 107050.8 5.7 | 97175.2 5.1 | 13035.7 5.7 | 14910.3 5.4 |
| CROPLAND 2 | 31876.8 1.4 | 31876.8 1.4 | 30140.3 1.3 | 33613.2 1.5 | 30512.4 1.4 | 4093.1 2.2 | 22397.6 0.3 |
| CROPLAND 3 | 23651.5 2.3 | 23651.5 2.3 | 22363.1 2.2 | 24939.9 2.4 | 22639.2 2.2 | 23651.5 2.3 | 10100.7 0.0 |
| CROPLAND 4 | 13061.6 0.9 | 13061.6 0.9 | 12350.1 0.9 | 13773.2 1.0 | 12502.6 0.9 | 5307.3 0.4 | 13936.7 0.0 |
| CROPLAND 5 | 7760.2 1.7 | 5034.2 1.1 | 7337.5 1.5 | 8182.9 1.4 | 7428.1 1.5 | 7760.2 1.7 | 4635.7 5.6 |
| CROPLAND 6 | 2720.1 0.9 | 2720.1 0.9 | 2571.9 0.8 | 2660.3 0.9 | 2603.7 0.9 | 1121.9 0.4 | 5034.3 0.0 |
| CROPLAND 10 | 26002.2 79.7 | 1314.6 4.0 | 24585.8 75.4 | 27419.7 44.1 | 24889.3 76.3 | 3330.8 10.2 | 326.2 326.2 |
| CROPLAND | 206592.9 2.8 | 150949.9 2.1 | 195330.9 2.7 | 217447.0 3.0 | 197750.5 2.7 | 58380.5 2.8 | 7329.7 1.4 |
| VINEYARDS AND ORCH. | 907.6 1126.1 0.77 | 907.6 (TONS) 1186.1 (ACRES) 0.77 (TONS/ACRE) | JATER AREA ONLY | 1265.2 (ACRES) | | | |
| GRASSLAND AND PASTURE | 1099.0 20489.9 0.05 | 1095.5 (TONS) 20489.9 (ACRES) 0.05 (TONS/ACRE) | OTHER LAND USE AREA | 18157.3 (ACRES) | | | |
| WOODLAND | 2503.9 16338.6 0.16 | 2503.9 (TONS) 16338.6 (ACRES) 0.16 (TONS/ACRE) | MISSING DATA | 8747.5 (ACRES) | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 227799.6 1.9 | 167749.1 1.4 | 215622.3 1.8 | 239897.1 2.0 | 218223.2 1.8 | 67922.4 0.6 | 120191.9 1.8 |
| PERCENT REDUCTION: | 0.0 | 26.3 | 5.3 | -5.3 | 4.2 | 70.2 | 48.7 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| BASIN: DIRECT DRAINAGE MAINFILL | | | | | | | | | |
|---------------------------------------|--|---|-------------------------------|-------------------------------|---------------------------------------|---|------------------------------------|---------------------------------------|--|
| COUNTY: 34 MURKIN, OHIO | | | | | | | | | |
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO FLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL P.L. AREA (TONS/ACRE) | SOIL WASH: GRIDP LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) | |
| CROPLAND 1 | 13428.3 | 5288.0 | 12783.8 | 1056.8 | 1856.6 | 5622.7 | 1284.9 | 1284.9 | |
| 345 | 18.4 | 4.1 | 9.9 | 10.0 | 1.4 | 4.4 | 10.4 | 10.4 | |
| CROPLAND 2 | 1812.8 | 1210.1 | 1726.1 | 1898.0 | 1733.3 | 759.2 | 444.3 | 355.8 | |
| 346 | 4.1 | 2.7 | 3.9 | 4.3 | 1.7 | 1.7 | 4.7 | 4.7 | |
| CROPLAND 3 | 24188.5 | 23122.2 | 22957.4 | 25243.6 | 24100.5 | 24100.5 | 3292.3 | 1581.5 | |
| 347 | 2.9 | 2.8 | 2.8 | 3.0 | 2.8 | 2.9 | 2.9 | 2.6 | |
| CROPLAND 4 | 5417.7 | 5417.7 | 5160.4 | 5674.7 | 5182.2 | 2269.9 | 3449.6 | 0.0 | |
| 348 | 1.6 | 1.6 | 1.5 | 1.6 | 1.5 | .7 | .7 | 0.8 | |
| CROPLAND 5 | 1651.4 | 1374.1 | 1573.1 | 1729.7 | 1579.6 | 1651.4 | 748.3 | 89.8 | |
| 349 | 1.7 | 1.4 | 1.7 | 1.8 | 1.7 | 1.7 | 1.7 | 5.1 | |
| CROPLAND 6 | 173.5 | 173.5 | 165.3 | 181.7 | 165.9 | 72.7 | 148.3 | 0.0 | |
| 350 | 1.2 | 1.2 | 1.1 | 1.2 | 1.1 | .5 | .5 | 0.0 | |
| CROPLAND 7 | 46575.4 | 36585.6 | 44366.5 | 46782.5 | 44520.4 | 34476.4 | 14569.3 | 0.0 | |
| 351 | 3.2 | 2.5 | 3.0 | 3.3 | 3.1 | 2.3 | 2.4 | 0.0 | |
| WETLANDS AND ORCH. | 0.0 | 0.0 (TONS) | 0.0 (TONS) | 0.0 (TONS) | 257.6 (ACRES) | | | | |
| 352 | 0.0 | 0.0 (ACRES) | 0.0 (ACRES) | 0.0 (ACRES) | | | | | |
| 353 | 0.0 | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | 0.0 (TONS/ACRE) | | | | | |
| PASTURE AND PASTURE | 24.3 | 24.3 (TONS) | 24.3 (TONS) | 1601.2 (ACRES) | | | | | |
| 354 | 400.8 | 400.8 (ACRES) | 400.8 (ACRES) | | | | | | |
| 355 | .05 | .05 (TONS/ACRE) | .05 (TONS/ACRE) | | | | | | |
| WOODLAND | 132.5 | 132.5 (TONS) | 132.5 (TONS) | 0.0 (ACRES) | | | | | |
| 356 | 2194.3 | 2194.3 (ACRES) | 2194.3 (ACRES) | | | | | | |
| 357 | .06 | .06 (TONS/ACRE) | .06 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 46732.2 | 36742.4 | 44523.3 | 44541.3 | 30358.6 | 34633.2 | 17288.4 | | |
| 358 | 2.7 | 2.1 | 2.6 | 2.8 | 2.6 | 2.3 | 2.3 | | |
| PERCENT REDUCTION: | 8.0 | 21.4 | 4.7 | -4.7 | 4.3 | 35.0 | 25.9 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

SCENARIO: DIRECT DRAINAGE MAINFILL

COUNTY: SHELLEYSBURG, OHIO

| LAND USE | EXISTING POTENTIAL GROSS LOSS TO PLOWING AND EXISTING ONLY (TONS) | FALL PLOWING ONLY (TONS) | WINTER CROPPING (TONS) | MAXIMUM TILLAGE REDUCTION (TONS) | REDUCED TILLAGE: CHISEL PLOUGH AREA (TONS) | SOIL MOIST. SAVED LAND AREA (ACRES) | EXISTING SOIL LOSS FACTOR (ACRES) |
|---------------------------------------|---|--------------------------|------------------------|----------------------------------|--|-------------------------------------|-----------------------------------|
| CROPLAND 1 | 7429.4 | 5903.6 | 7446.5 | 4425.2 | 1319.1 | 3999.3 | 499.6 |
| SWG | 3.3 | 2.5 | 3.2 | 3.6 | 1.7 | 1.7 | 5.1 |
| CROPLAND 2 | 4397.9 | 9397.9 | 4038.2 | 10113.0 | 1583.3 | 4401.1 | 0.0 |
| SWG | 1.2 | 1.2 | 1.1 | 1.1 | 1.2 | .5 | 0.0 |
| CROPLAND 3 | 21202.7 | 21202.7 | 20165.6 | 22815.2 | 21202.7 | 21202.7 | 0.0 |
| SWG | 1.6 | 1.6 | 1.5 | 1.7 | 1.5 | 1.5 | 0.0 |
| CROPLAND 4 | 10672.6 | 10672.6 | 10150.6 | 11444.7 | 10498.6 | 5452.3 | 0.0 |
| SWG | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | .5 | 0.0 |
| CROPLAND 5 | 989.3 | 989.3 | 940.9 | 1044.6 | 973.2 | 989.3 | 0.0 |
| SWG | .8 | .8 | .8 | .9 | .8 | .3 | 0.3 |
| CROPLAND 6 | 48146.1 | 47541.4 | 53903.4 | 49275.3 | 30546.7 | 36445.2 | 35409.6 |
| SWG | 1.4 | 1.4 | 1.5 | 1.5 | 1.4 | 1.0 | 1.0 |
| VINEYARDS AND ORCH. | 1187.2 | 1187.2 (TONS) | JATER AREA ONLY | 826.7 (ACRES) | | | |
| SWG | 2043.7 | 2043.7 (ACRES) | AREA ONLY | | | | |
| SWG | .58 | .58 (TONS/ACRE) | | | | | |
| PASTURE AND PASTURE | 432.3 | 432.3 (TONS) | OTHER LAND USE AREA | 18416.7 (ACRES) | | | |
| SWG | 10669.3 | 10669.3 (ACRES) | | | | | |
| SWG | .02 | .02 (TONS/ACRE) | | | | | |
| WOODLAND | 595.3 | 595.3 (TONS) | MISSING DATA | 18967.8 (ACRES) | | | |
| SWG | 14788.5 | 14788.5 (ACRES) | | | | | |
| SWG | .04 | .04 (TONS/ACRE) | | | | | |
| 3-MONTH TOTAL POTENTIAL GROSS EROSION | 64298.1 | 63192.6 | 71129.1 | 65263.0 | 41524.8 | 49001.3 | 89878.9 |
| SWG | .7 | .7 | .9 | .7 | .5 | .5 | .5 |
| PERCENT REDUCTION: | 0.0 | 3.7 | 4.7 | -7.3 | 1.6 | 37.4 | 26.1 |

Lake Erie Wastewater Management Study
Land Management Alternatives : Best Management Practice Scenarios

U.S. Army Corps of Engineers, Buffalo District

Basin: Direct Drainage MainPIL

County: 18 Cuyahoga, Ohio

| Land Use | Existing Gross Erosion (tons) | Potential Gross Erosion (tons) | Loss to Tilling (tons) | Spring Ploving Only (tons) | Fall Ploving Only (tons) | Winter Crop (tons) | Maximum Tillage Reduction (tons) | Reduced Tillage (tons) | Soil Mgmt. 343P Land (tons) | Existing Soil Loss > 1 Factor (tons/acre) |
|---------------------------------------|-------------------------------|--------------------------------|------------------------|----------------------------|--------------------------|--------------------|----------------------------------|------------------------|-----------------------------|---|
| 1. 346 | 986.3 | 586.3 | 577.9 | 2.3 | 667.1 | 573.6 | 89.2 | 288.9 | 252.6 | 0.0 |
| 2. 346 | 972.6 | 472.6 | 465.8 | 1.1 | 537.7 | 462.4 | 71.9 | 232.9 | 456.3 | 0.0 |
| 3. 346 | 1229.4 | 1229.4 | 1211.6 | 1.1 | 1.2 | 1.1 | .2 | .5 | | 0.0 |
| 4. 346 | 19.8 | 19.8 | 19.5 | .8 | 22.5 | 19.4 | 9.8 | 9.8 | 23.0 | 0.0 |
| 5. 346 | 6.2 | 6.2 | 6.1 | .3 | 7.0 | 6.0 | 6.2 | 6.2 | 23.0 | 0.0 |
| 10. 346 | 3887.8 | 459.3 | 3831.5 | 41.7 | 4423.1 | 3403.3 | 591.6 | 1915.7 | 91.9 | 91.9 |
| 346 | 42.3 | 5.0 | 41.7 | 48.1 | 48.1 | 41.4 | 6.4 | 23.3 | 42.3 | 42.3 |
| 346 | 6282.1 | 2773.6 | 6112.3 | 3.1 | 7056.1 | 6067.4 | 1998.1 | 3682.9 | 1975.8 | |
| Vineyards and Orch. | 0.0 | 0.0 | 0.6 (tons) | 0.0 (acres) | 45.9 (acres) | | | | | |
| Brassland and Pasture | 2742.0 | 2742.0 | 7463.1 | 7463.1 | 9538.7 | 9538.7 | | | | |
| 400Land | 2688.4 | 2688.4 | 6682.4 | 6682.4 | 96216.7 | 96216.7 | | | | |
| Summary Total Potential Gross Erosion | 81062.2 | 57170.3 | 80436.4 | 87013.3 | 80123.5 | 51766.2 | 63506.9 | 112337.2 | | |
| Percent Reduction: | 0.0 | 29.5 | .7 | -7.3 | 36.1 | 21.7 | | | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| COUNTY: 20 LAKE, OHIO | | | | | | | | | | | | | | |
|---------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| BASIN: DIRECT DRAINAGE MAINFILL | | | | | | | | | | | | | | |
| LAND USE | EXISTING POTENTIAL GROSS LOSS TO TILLAGE AND EXISTING JULY (TONS/ACRE) | EXISTING POTENTIAL GROSS LOSS TO TILLAGE AND EXISTING JULY (TONS/ACRE) | EXISTING POTENTIAL GROSS LOSS TO TILLAGE AND EXISTING JULY (TONS/ACRE) | EXISTING POTENTIAL GROSS LOSS TO TILLAGE AND EXISTING JULY (TONS/ACRE) | EXISTING POTENTIAL GROSS LOSS TO TILLAGE AND EXISTING JULY (TONS/ACRE) | EXISTING POTENTIAL GROSS LOSS TO TILLAGE AND EXISTING JULY (TONS/ACRE) | EXISTING POTENTIAL GROSS LOSS TO TILLAGE AND EXISTING JULY (TONS/ACRE) | EXISTING POTENTIAL GROSS LOSS TO TILLAGE AND EXISTING JULY (TONS/ACRE) | EXISTING POTENTIAL GROSS LOSS TO TILLAGE AND EXISTING JULY (TONS/ACRE) | EXISTING POTENTIAL GROSS LOSS TO TILLAGE AND EXISTING JULY (TONS/ACRE) | EXISTING POTENTIAL GROSS LOSS TO TILLAGE AND EXISTING JULY (TONS/ACRE) | EXISTING POTENTIAL GROSS LOSS TO TILLAGE AND EXISTING JULY (TONS/ACRE) | EXISTING POTENTIAL GROSS LOSS TO TILLAGE AND EXISTING JULY (TONS/ACRE) | EXISTING POTENTIAL GROSS LOSS TO TILLAGE AND EXISTING JULY (TONS/ACRE) |
| 230PLAND 1 | 13625.9 | 12746.1 | 13466.6 | 15379.0 | 13064.1 | 1673.4 | 5896.6 | 5414.4 | 5896.6 | 5414.4 | 5896.6 | 5414.4 | 5896.6 | 5414.4 |
| 346 | 2.5 | 2.4 | 2.5 | 2.4 | 2.4 | .3 | 1.1 | | 1.1 | | 1.1 | | 1.1 | |
| 230PLAND 2 | 12343.7 | 12343.7 | 12234.8 | 13976.9 | 11476.7 | 1520.8 | 9359.0 | 7577.2 | 9359.0 | 7577.2 | 9359.0 | 7577.2 | 9359.0 | 7577.2 |
| 346 | 1.6 | 1.6 | 1.6 | 1.9 | 1.6 | .2 | .7 | | .7 | | .7 | | .7 | |
| 230PLAND 3 | 1496.7 | 1496.7 | 1479.2 | 1649.2 | 1435.4 | 1496.7 | 1496.7 | 1699.3 | 1496.7 | 1699.3 | 1496.7 | 1699.3 | 1496.7 | 1699.3 |
| 343 | .9 | .9 | .9 | 1.0 | .8 | .9 | .9 | | .9 | | .9 | | .9 | |
| 230PLAND 5 | 237.8 | 237.8 | 235.0 | 268.4 | 224.1 | 237.8 | 237.8 | 344.5 | 237.8 | 344.5 | 237.8 | 344.5 | 237.8 | 344.5 |
| 346 | .7 | .7 | .7 | .4 | .7 | .7 | .7 | | .7 | | .7 | | .7 | |
| 230PLAND 10 | 5098.1 | 166.7 | 3034.0 | 3487.7 | 2963.6 | 379.5 | 1337.2 | 45.9 | 1337.2 | 45.9 | 1337.2 | 45.9 | 1337.2 | 45.9 |
| 343 | 67.3 | 3.5 | 66.3 | 76.0 | 54.6 | 8.3 | 29.1 | | 29.1 | | 29.1 | | 29.1 | |
| 230PLAND | 30834.2 | 27025.0 | 30473.6 | 34801.2 | 29571.9 | 5308.2 | 14327.5 | 15847.3 | 14327.5 | 15847.3 | 14327.5 | 15847.3 | 14327.5 | 15847.3 |
| VINEYARDS AND ORCH. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRASSLAND AND PASTURE | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 | 515.6 |
| 230PLAND | 1163.5 | 1163.5 | 1163.5 | 1163.5 | 1163.5 | 1163.5 | 1163.5 | 1163.5 | 1163.5 | 1163.5 | 1163.5 | 1163.5 | 1163.5 | 1163.5 |
| 346 | 11983.9 | 11983.9 | 11983.9 | 11983.9 | 11983.9 | 11983.9 | 11983.9 | 11983.9 | 11983.9 | 11983.9 | 11983.9 | 11983.9 | 11983.9 | 11983.9 |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 35238.4 | 31102.9 | 34839.7 | 34529.0 | 33852.6 | 7571.2 | 17344.1 | 43768.2 | 17344.1 | 43768.2 | 17344.1 | 43768.2 | 17344.1 | 43768.2 |
| PERCENT REDUCTION: | 0.0 | 11.7 | 1.1 | -12.2 | 3.9 | 74.5 | 58.5 | | 58.5 | | 58.5 | | 58.5 | |

U.S. ARMY COMPS OF ENGINEERS, BUFFALO DISTRICT

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LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

3ASIN: DIRECT DRAINAGE MAINFILL COUNTY: 24 (P.C., PENNSYLVANIA)

| LAND USE | EXISTING GROSS EROSION (TONS) | POT. REDUCE LOSS TO Y. PLUING ONLY (TONS) | SOIL SPRING PLUING ONLY (TONS) | FALL PLUING ONLY (TONS) | WINTER COVER (TONS) | MAXIMUM REDUCTION FILLAGE (TONS) | REDUCED FILLAGE (TONS) | SOIL MGMT. 3000 PLOW AREA (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
|-------------------------|-------------------------------|---|--------------------------------|-------------------------|---------------------|----------------------------------|------------------------|-----------------------------------|---------------------------------------|
| 30PLAND 1 | 41380.5 | 41235.3 | 40490.6 | 47164.4 | 40935.5 | 9499.0 | 24027.4 | 17411.3 | 49.0 |
| 346 | 2.3 | 2.3 | 2.3 | 2.4 | 2.3 | .5 | 1.3 | 5.6 | 5.6 |
| 30PLAND 2 | 54388.6 | 55925.9 | 57133.0 | 66539.4 | 57760.8 | 12556.7 | 33903.1 | 21181.3 | 1146.6 |
| 346 | 2.8 | 2.6 | 2.7 | 3.1 | 2.7 | .6 | 1.5 | 5.7 | 5.7 |
| 30PLAND 3 | 119498.8 | 72619.2 | 116929.0 | 136203.0 | 118213.9 | 119498.8 | 119498.8 | 24206.4 | 24206.4 |
| 346 | 4.9 | 3.0 | 4.8 | 5.6 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 30PLAND 4 | 2610.5 | 2610.5 | 2554.4 | 2975.5 | 2592.5 | 1515.0 | 1515.0 | 3054.2 | 0.0 |
| 346 | .9 | .9 | .8 | 1.0 | .8 | .5 | .5 | 0.0 | 0.0 |
| 30PLAND 5 | 617.6 | 617.6 | 604.3 | 703.9 | 610.9 | 617.6 | 617.6 | 1582.4 | 0.8 |
| 346 | .4 | .4 | .4 | .5 | .4 | .4 | .4 | 0.0 | 0.0 |
| 30PLAND 10 | 37247.2 | 6770.7 | 36446.2 | 42453.4 | 36446.7 | 4010.1 | 21627.4 | 2243.7 | 2243.7 |
| 346 | 16.6 | 3.0 | 16.2 | 18.9 | 16.4 | 3.6 | 3.6 | 16.6 | 16.6 |
| 30PLAND | 259743.2 | 179779.2 | 250157.5 | 296051.4 | 256950.3 | 151098.0 | 201190.1 | 69399.9 | |
| 346 | 3.7 | 2.6 | 3.6 | 4.2 | 3.7 | 2.2 | 2.9 | | |
| VINEYARDS AND ORCH. | 10284.1 | 5567.4 (TONS) | 4ATER AREA ONLY | 3123.4 (ACRES) | | | | | |
| 346 | 3.53 | 2915.8 (ACRES) | 1.91 (TONS/ACRE) | | | | | | |
| GRASSLAND AND PASTURE | 1935.9 | 1935.9 (TONS) | OTHER LAND USE AREA | 44656.8 (ACRES) | | | | | |
| 346 | .12 | 15923.4 (ACRES) | .12 (TONS/ACRE) | | | | | | |
| 30PLAND | 16583.1 | 16583.1 (TONS) | MISSING DATA | 10605.7 (ACRES) | | | | | |
| 346 | .25 | 67202.5 (ACRES) | .25 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL | 300157.5 | 302192.2 | 346933.3 | 305174.8 | 192120.0 | 245624.9 | 166647.2 | | |
| POTENTIAL GROSS EROSION | 222750.6 | 1.3 | 2.1 | 1.2 | 1.5 | | | | |
| PERCENT REDUCTION: | 0.0 | 27.7 | 1.9 | -12.6 | 1.0 | 37.7 | 28.3 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

| COUNTY: 21 CRAWFORD, PENNSYLVANIA | | | | | | | | | |
|---------------------------------------|--|--|---------------------------------|-------------------------------|---------------------------------------|---|------------------------------|---------------------------------------|--|
| 30339: DIRECT DRAINAGE MAINFILL | | | | | | | | | |
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | REDUCE LOSS TO Y PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL WASH GROUP LAND (ACRES) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) | |
| 200LAND 1 | 283.5 | 110.6 | 198.4 | 236.6 | 203.5 | 130.3 | 39.5 | 39.5 | |
| 546 | 5.2 | 3.0 | 5.0 | 6.0 | 5.2 | 3.4 | 5.2 | | |
| 200LAND 2 | 232.1 | 159.1 | 226.3 | 269.4 | 232.1 | 153.4 | 79.1 | 79.1 | |
| 546 | 2.9 | 2.0 | 2.9 | 3.4 | 2.9 | 1.9 | 2.9 | | |
| 200LAND | 435.6 | 276.7 | 424.7 | 506.4 | 435.6 | 288.6 | 118.6 | | |
| | 3.7 | 2.3 | 3.6 | 4.3 | 3.7 | 2.4 | | | |
| WINEYARDS AND ORCH. | 0.0 | 0.0 (TONS) | WATER AREA ONLY (TONS/ACRE) | | 0.0 (ACRES) | | | | |
| | 0.0 | 0.0 (ACRES) | | | | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | | | | | | | |
| GRASSLAND AND PASTURE | 0.0 | 0.0 (TONS) | OTHER LAND USE AREA (TONS/ACRE) | | 158.1 (ACRES) | | | | |
| | 0.0 | 0.0 (ACRES) | | | | | | | |
| | 0.00 | 0.00 (TONS/ACRE) | | | | | | | |
| WOODLAND | 56.3 | 56.3 (TONS) | MISSING DATA | | 0.0 (ACRES) | | | | |
| | 316.3 | 316.3 (ACRES) | | | | | | | |
| | 1.0 | 1.0 (TONS/ACRE) | | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 991.9 | 481.0 | 562.7 | 491.9 | 176.1 | 344.3 | 434.9 | | |
| | 2.2 | 1.3 | 1.3 | 1.1 | .4 | .3 | | | |
| PERCENT REDUCTION: | 0.0 | 32.3 | 2.2 | -14.4 | 0.0 | 64.2 | 29.3 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: DIRECT DRAINAGE MAINPIL | | | | | | | | | |
|--|---|---|-------------------------------------|-----------------------------|--|---|--|--|--|
| COUNTY: 30 CATTARAUGUS, NY (INVALID \$DLS) | | | | | | | | | |
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER CROPS (TONS/ACRE) | MAXIMUM REDUCTION TILLAGE (TONS/ACRE) | REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE) | EXISTING SOIL LOSS 5 T FACTOR (TONS/ACRE) | | |
| 200PLAND 546 1 | 2297.3 4.5 | 1534.5 3.0 | 2247.1 4.4 | 2599.6 5.1 | 317.4 4.5 | 891.7 1.7 | 511.5 4.5 | | |
| 200PLAND 546 3 | 6372.2 13.0 | 1467.8 3.0 | 6288.1 12.9 | 7210.6 14.7 | 6372.2 13.0 | 6372.2 13.0 | 489.3 13.0 | | |
| 200PLAND 546 10 | 5400.3 48.5 | 400.3 3.0 | 5329.3 39.9 | 6116.9 45.8 | 5400.3 40.5 | 2096.2 15.7 | 133.4 48.5 | | |
| 200PLAND 546 12 | 14069.8 12.4 | 3402.6 3.0 | 13844.7 12.2 | 15921.1 14.0 | 14069.8 12.4 | 9360.1 9.3 | 1134.2 9.3 | | |
| VINEYARDS AND ORCH. | 0.0 0.0 0.00 | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 0.0 0.0 0.00 | 0.0 0.0 0.00 | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 0.0 0.0 0.00 | | |
| BRASSLAND AND PASTURE | 248.3 333.6 7.4 | 248.3 (TONS) 333.6 (ACRES) 7.4 (TONS/ACRE) | 0.0 0.0 0.00 | 0.0 0.0 0.00 | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 0.0 0.0 0.00 | | |
| WOODLAND | 2280.5 2513.1 9.1 | 2280.5 (TONS) 2513.1 (ACRES) 9.1 (TONS/ACRE) | 0.0 0.0 0.00 | 0.0 0.0 0.00 | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE) | 0.0 0.0 0.00 | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 18175.1 4.2 | 6494.8 1.5 | 17972.4 4.1 | 24202.2 4.6 | 18175.1 4.2 | 13018.1 3.0 | 4359.0 3.0 | | |
| PERCENT REDUCTION: | 0.0 | 64.3 | 1.1 | -11.2 | 0.0 | 40.0 | 23.1 | | |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 29 (RIE, NEW YORK)

343M: DIRECT DRAINAGE MAINFILL

| LAND USE | EXISTING POTENTIAL LOSS TO FLOODING AND EXISTING ONLY (TONS/ACRE) | FALL PLOUING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | REDUCED TILLAGE (TONS/ACRE) | EXISTING SOIL LOSS FACTOR (TONS/ACRE) |
|---------------------------------------|---|-------------------------------|-------------------------------|-----------------------------|-----------------------------|---------------------------------------|
| CROPLAND 1 | 59706.9 | 57200.3 | 51302.3 | 68136.0 | 59706.9 | 2135.0 |
| 346 | 2.4 | 2.5 | 2.3 | 2.4 | 2.4 | 1.1 |
| CROPLAND 2 | 19051.2 | 19051.2 | 21740.4 | 19051.2 | 19051.2 | 0.0 |
| 346 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.0 |
| CROPLAND 3 | 43630.0 | 43630.0 | 42503.4 | 43630.0 | 43630.0 | 0.0 |
| 346 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 0.0 |
| CROPLAND 4 | 684.4 | 684.4 | 684.4 | 684.4 | 684.4 | 0.0 |
| 346 | .7 | .7 | .7 | .7 | .7 | 0.0 |
| CROPLAND 5 | 439.3 | 439.3 | 429.0 | 439.3 | 439.3 | 0.0 |
| 346 | .3 | .3 | .3 | .3 | .3 | 0.0 |
| CROPLAND 10 | 37614.1 | 7027.7 | 36729.0 | 37614.1 | 37614.1 | 2579.8 |
| 346 | 14.6 | 2.7 | 14.2 | 14.6 | 14.6 | 10.6 |
| CROPLAND | 161125.9 | 128122.9 | 157334.7 | 161125.9 | 161125.9 | 63933.3 |
| 346 | 2.3 | 1.9 | 2.3 | 2.3 | 2.3 | 1.9 |
| VINEYARDS AND ORCH. | 2696.8 | 2065.0 (TONS) | 4ATER ARFA ONLY | 2646.5 (ACRES) | | |
| | 1779.2 | 1779.2 (ACRES) | | | | |
| | 1.52 | 1.16 (TONS/ACRE) | | | | |
| GRASSLAND AND PASTURE | 1374.6 | 1374.6 (TONS) | 30957.2 (ACRES) | | | |
| | 10250.5 | 10250.5 (ACRES) | | | | |
| | .08 | .04 (TONS/ACRE) | | | | |
| WOODLAND | 10702.9 | 10702.9 (TONS) | MISSING DATA | 26934.7 (ACRES) | | |
| | 47859.2 | 47859.2 (ACRES) | | | | |
| | .22 | .22 (TONS/ACRE) | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | 210628.3 | 171109.5 | 206088.5 | 237856.4 | 103965.9 | 163748.9 |
| | 1.3 | 1.0 | 1.3 | 1.5 | .6 | 1.1 |
| PERCENT REDUCTION: | 0.0 | 18.6 | 2.2 | -12.9 | 50.7 | 16.4 |

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

| BASIN: DIRECT DRAINAGE MAINFILL | | | | | | | | | |
|---------------------------------------|--|---|--------------------------------------|-------------------------------|-------------------------------|-----------------------------|---|------------------------------------|---|
| COUNTY: 62 ALL IN BASIN | | | | | | | | | |
| LAND USE | EXISTING POTENTIAL GROSS EROSION (TONS/ACRE) | LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE) | SOIL SPRING PLOWING ONLY (TONS/ACRE) | FALL PLOWING ONLY (TONS/ACRE) | WINTER COVER CROP (TONS/ACRE) | MAXIMUM TILLAGE (TONS/ACRE) | REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE) | SOIL MGMT. GROUP LAND AREA (ACRES) | EXISTING SOIL LOSS > 7 FACTOR (TONS/ACRE) |
| 1 CROPLAND | 534177.1 | 402538.3 | 530922.4 | 712193.4 | 536283.4 | 97969.4 | 300500.4 | 163331.6 | 66719.4 |
| 346 | 4.0 | 2.9 | 3.8 | 4.3 | 3.9 | .6 | 1.3 | | 5.6 |
| 2 CROPLAND | 573410.4 | 528074.9 | 550914.5 | 520533.2 | 559991.6 | 90744.2 | 260963.9 | 370109.6 | 39303.1 |
| 346 | 1.5 | 1.4 | 1.5 | 1.7 | 1.5 | .2 | .7 | | 4.2 |
| 3 CROPLAND | 774304.2 | 454368.4 | 745955.4 | 442972.0 | 752766.6 | 774384.2 | 774384.2 | 195716.9 | 35646.8 |
| 346 | 4.8 | 2.3 | 3.8 | 4.3 | 3.8 | 4.0 | 4.0 | | 6.3 |
| 4 CROPLAND | 184154.2 | 184154.2 | 175090.4 | 193200.5 | 178029.1 | 79427.0 | 79427.0 | 285331.4 | 0.0 |
| 346 | .9 | .9 | .8 | .9 | .9 | .4 | .4 | | 0.0 |
| 5 CROPLAND | 155682.9 | 49248.0 | 148882.0 | 165850.0 | 148416.2 | 155682.9 | 155682.9 | 57361.6 | 6842.3 |
| 346 | 2.7 | .9 | 2.6 | 2.9 | 2.6 | 2.7 | 2.7 | | 18.2 |
| 6 CROPLAND | 23.3 | 23.3 | 22.9 | 27.9 | 23.3 | 9.3 | 20.5 | 114.0 | 0.0 |
| 346 | .2 | .2 | .2 | .2 | .2 | .1 | .2 | | 0.0 |
| 7 CROPLAND | 255281.7 | 255281.7 | 241735.6 | 246601.4 | 241600.9 | 104890.3 | 104890.3 | 257322.3 | 0.0 |
| 346 | 1.0 | 1.0 | .9 | 1.0 | .9 | .4 | .4 | | 0.0 |
| 8 CROPLAND | 2553.0 | 898.8 | 2414.5 | 2708.8 | 2408.7 | 2553.0 | 2553.0 | 3317.9 | 89.0 |
| 346 | .8 | .3 | .7 | .8 | .7 | .8 | .3 | | 20.6 |
| 9 CROPLAND | 158468.7 | 21054.7 | 154504.2 | 177843.6 | 156742.1 | 28241.9 | 83872.7 | 7052.1 | 7052.1 |
| 346 | 22.5 | 3.0 | 21.9 | 25.2 | 22.2 | 4.0 | 11.9 | | 22.5 |
| 10 CROPLAND | 2758135.9 | 1975634.3 | 2650442.4 | 2984030.9 | 2676171.9 | 1333902.2 | 1770379.9 | 1283457.9 | |
| 346 | 2.2 | 1.6 | 2.1 | 2.4 | 2.1 | 1.1 | 1.4 | | |
| VINEYARDS AND ORCH. | 27525.3 | 18618.4 (TONS) | WATER AREA ONLY | 34304.2 (ACRES) | | | | | |
| 346 | 1.62 | 16626.1 (ACRES) | 1.12 (TONS/ACRE) | | | | | | |
| GRASSLAND AND PASTURE | 13696.8 | 13693.3 (TONS) | OTHER LAND USE AREA | 458690.2 (ACRES) | | | | | |
| 346 | .05 | 264803.6 (ACRES) | .05 (TONS/ACRE) | | | | | | |
| WOODLAND | 59766.4 | 59766.4 (TONS) | MISSING DATA | 721494.2 (ACRES) | | | | | |
| 346 | .17 | 359146.6 (ACRES) | .17 (TONS/ACRE) | | | | | | |
| SUMMARY TOTAL POTENTIAL GROSS EROSION | | | | | | | | | |
| 346 | 1.5 | 1.1 | 1.4 | 1.6 | 1.5 | .8 | 1.3 | 257508.3 | |
| PERCENT REDUCTION: | | | | | | | | | |
| 346 | 0.0 | 27.4 | 3.8 | -7.9 | 2.9 | 49.8 | 34.3 | | |

Lake Erie Drainage Basin Summary

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

| COUNTY: 62 ALL IN BASIN | | | | | | | | | | | | | |
|------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| BASIN: ALL BASINS IN DATASET | | | | | | | | | | | | | |
| LAND USE | EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) | EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY (TONS) |
| 1 | 7571339.0 | 3225409.2 | 704922.0 | 7475709.0 | 7108494.0 | 1100263.0 | 3315495.0 | 1045904.0 | 649445.7 | 3.9 | 934154.9 | 5.2 | 277222.3 |
| 2 | 6395781.0 | 4364725.0 | 6394125.0 | 6404174.0 | 6164433.0 | 946634.2 | 2845956.0 | 2164249.0 | 934154.9 | 5.2 | 277222.3 | 5.0 | 1698.2 |
| 3 | 2079468.0 | 1512629.0 | 1944144.0 | 2242209.0 | 2015742.0 | 2079468.0 | 2079468.0 | 513290.7 | 277222.3 | 5.0 | 1698.2 | 5.0 | 32973.6 |
| 4 | 924982.4 | 924724.4 | 474445.2 | 974326.1 | 445460.1 | 390447.9 | 390447.9 | 1005711.1 | 32973.6 | 5.0 | 1698.2 | 5.0 | 32973.6 |
| 5 | 483023.1 | 309716.5 | 460640.2 | 514419.5 | 463156.6 | 443023.1 | 443023.1 | 384412.9 | 11633.7 | 17.7 | 11633.7 | 17.7 | 0.0 |
| 6 | 23.3 | 23.3 | 22.9 | 27.4 | 23.3 | 9.3 | 20.3 | 114.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7 | 6685.8 | 4439.5 | 6261.7 | 6799.8 | 6466.9 | 6685.8 | 6685.8 | 2135.0 | 49.0 | 21.4 | 49.0 | 21.4 | 0.0 |
| 8 | 880211.4 | 880211.4 | 824999.4 | 916476.5 | 824363.2 | 353427.2 | 353427.2 | 769052.7 | 1698.2 | 34.7 | 1698.2 | 34.7 | 0.0 |
| 9 | 363909.6 | 308663.3 | 342495.3 | 376714.3 | 346421.4 | 363909.6 | 363909.6 | 260441.4 | 32973.6 | 5.0 | 1698.2 | 5.0 | 32973.6 |
| 10 | 1262413.0 | 106034.4 | 1214235.0 | 1376230.0 | 1233730.0 | 200054.7 | 508412.4 | 32973.6 | 32973.6 | 5.0 | 1698.2 | 5.0 | 32973.6 |
| 11 | 19767836.6 | 11641480.9 | 14474730.7 | 21092446.1 | 17053690.5 | 524362.8 | 10424105.3 | 6274369.2 | 6274369.2 | 1.7 | 6274369.2 | 1.7 | 6274369.2 |
| 12 | 43329.5 | 31054.3 (TONS) | JATER AREA ONLY | 208774.7 (ACRES) | 208774.7 (ACRES) | 208774.7 (ACRES) | 208774.7 (ACRES) | 208774.7 (ACRES) | 208774.7 (ACRES) | 208774.7 (ACRES) | 208774.7 (ACRES) | 208774.7 (ACRES) | 208774.7 (ACRES) |
| 13 | 27910.6 | 27910.6 (ACRES) | JATER AREA ONLY | 1363795.0 (ACRES) | 1363795.0 (ACRES) | 1363795.0 (ACRES) | 1363795.0 (ACRES) | 1363795.0 (ACRES) | 1363795.0 (ACRES) | 1363795.0 (ACRES) | 1363795.0 (ACRES) | 1363795.0 (ACRES) | 1363795.0 (ACRES) |
| 14 | 81979.6 | 81979.6 (TONS) | JATER AREA ONLY | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) |
| 15 | 946526.7 | 946526.7 (ACRES) | JATER AREA ONLY | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) |
| 16 | 270283.4 | 264524.0 (TONS) | MISSING DATA | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) |
| 17 | 1413491.0 | 1410646.7 (ACRES) | MISSING DATA | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) | 2849222.6 (ACRES) |
| 18 | 26884392.4 | 16055473.9 | 25649426.1 | 24650540.3 | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) | 2573222.6 (ACRES) |
| 19 | 2.3 | 1.4 | 2.2 | 2.5 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 20 | 9.0 | 40.2 | 4.4 | -6.5 | 3.5 | 64.7 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 |